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*Directory of Professional/Trade
Organization Laboratory
Accreditation/Designation Programs*

Charles W. Hyer, Editor

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*Directory of Professional/Trade
Organization Laboratory
Accreditation/Designation Programs*

Charles W. Hyer, Editor

Standards Code and Information Program
Office of Standards Services
National Institute of Standards
and Technology
Gaithersburg, MD 20899
(Supersedes NBS GCR 84-472; Section 4)

March 1992



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FOREWORD

This directory is a guide to laboratory accreditation and similar types of programs conducted by private sector professionals and trade organizations. These programs accredit or designate laboratories or other entities to conduct testing to assist certification bodies in carrying out their responsibilities. This accreditation, or designation, is based on formal assessment of the capability of the laboratory to conduct the testing. The nature of such assessments varies considerably from agency to agency.

Laboratory accreditation and related efforts provide some assurance regarding the technical proficiency and competence of an entity to assess a product's or service's conformance to a set of prescribed standards. Many sectors of the economy may be interested in laboratory accreditation and related programs for a variety of economic, procurement, safety, or other considerations. Mutual acceptance of laboratory test results among private sector professional and trade organizations, states, local jurisdictions, and at the national and international levels can remove barriers to trade.

This directory (prepared under a contract with the Office of Standards Services, NIST) is an update of information contained in NBS GCR 84-472, *Principal Aspects of U.S. Laboratory Accreditation Systems*. This directory identifies professional and trade organization laboratory accreditation/designation programs and notes the appropriate contact points within each organization. It is a reference for all who operate, use, or rely on laboratory services. Entries in this directory are based on information provided by each organization and reflect the organization's view of its activities. Parties interested in this subject may wish to review NISTIR 4576, *Laboratory Accreditation in the United States* (an introduction to the topic of laboratory accreditation), and NIST SP 808, *Directory of Federal Government Laboratory Accreditation/Designation Programs* (a summary of programs conducted by the federal government).

ACKNOWLEDGMENTS

This directory is based on my earlier publications in the field; its format was expanded to be consistent with "NIST Special Publication 808, *Directory of Federal Government Laboratory Accreditation/Designation Programs*," edited by Maureen Breitenberg. Both John Donaldson and Maureen Breitenberg of NIST's Office of Standard Services have provided important help and cooperation while monitoring this effort for NIST.

Special thanks are due to Al Tholen and the National Voluntary Laboratory Accreditation Program (NVLAP) staff for their support in preparing this document, as well as to Ruth Schreiber of Schreiber's Quality Word Processing Services, for her help in compiling this directory and managing all aspects of information processing, and to all the program officials who provided the information contained in this directory, without which this publication would not have been possible.

Charles W. Hyer
Editor

ABSTRACT

This directory is a guide to laboratory accreditation and similar types of programs conducted by professional and trade organizations. These programs accredit or designate laboratories or other entities to assist private sector professional societies, trade associations, related certification bodies, their membership, as well as government agencies, carrying out their responsibilities. This accreditation or designation is based on an assessment of the capability of the laboratory to conduct the testing. However, the nature of the assessment varies considerably by organization and program.

Entries in this directory are based on information provided by each organization and reflect the organization's view of its activities. Parties interested in laboratory accreditation are referred to NIST SP 808, *Directory of Federal Government Laboratory Accreditation/Designation Programs*, and NIST SP 815, *Directory of State and Local Government Laboratory Accreditation/Designation Programs*, which contain information on similar programs conducted at the federal, state and local government levels.

Publication of this directory is part of ongoing NIST efforts to establish and maintain comprehensive information on standards, regulations, laboratory accreditation, certification programs, and related information. This material answers the needs of government, industry, and the public for information on private sector laboratory accreditation and related programs.

Key Words: accreditation; certification; designation; laboratory accreditation; laboratory designation; listing; proficiency testing; qualified laboratories; quality systems; standards; testing

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INTRODUCTION

BACKGROUND

Laboratory ¹ accreditation has taken on increased significance worldwide as international recognition and acceptance of national accreditation bodies have assumed greater importance in the reduction of technical barriers to trade. Laboratory accreditation provides varying degrees of assurance of the technical proficiency and competence of a laboratory to assess a product's or service's conformance to a set of prescribed standards.² While laboratory accreditation and product/service certification are two distinct areas and not all laboratory accreditation programs are associated with a certification program, they are closely related. The competence of laboratories which perform the required testing within a certification or approval (e.g., building codes) system is as vital in securing acceptance of the certification/approval as is the adequacy of the standards on which the certification is based. The effects of laboratory accreditation, product or service certification/approval, producer ³ quality system assessment and registration by an assessment body ⁴ (now recognized under the general term "conformity assessment") are intertwined and in combination can serve as a basis for increased or diminished opportunities for international trade.

PURPOSE OF THIS DIRECTORY

This directory is designed to provide information about private sector professional/trade organization laboratory accreditation and similar types of programs (systems). These programs designate a set of laboratories or other entities as qualified to conduct testing to assist private sector professional societies, trade associations, related certification bodies, their membership, and government agencies in carrying out their responsibilities. The systems or programs include an assessment regarding the capability of the laboratory to conduct specified testing. However, the type and degree of rigor of such assessments vary greatly among programs. Entries in this directory are based on previously published information, and new information provided by professional/trade organizations that reflect their view of their activities. In the course of compiling this information, accredited and designated laboratories have reported an inconsistency by some programs in the application of various portions of their formal assessment criteria and procedures. No attempt has been made either to confirm or refute such allegations, as auditing was beyond the scope of this compilation. However, it should be noted that the criteria of some programs are applied on an optional or discretionary basis for certain categories or types of approval, accreditation experience, fields of testing, or requirements of other organizations that rely on the laboratory accreditations.

¹ The International Organization for Standardization (ISO) Guide 25-1990 *General Requirements for the Competence of Calibration and Testing Laboratories* provides the definition "laboratory: Body that calibrates and/or tests." It further notes: "1) In cases where a laboratory forms part of an organization that carries out other activities besides calibration and testing, the term 'laboratory' refers only to those parts of that organization that are involved in the calibration and testing process. 2) As used herein, the term 'laboratory' refers to a body that carries out calibration or testing at or from a permanent location, at or from a temporary facility, or in or from a mobile facility."

² ISO Guide 2-1986 of the ISO notes that: "The term laboratory accreditation may cover the recognition of both the technical competence and the impartiality of a testing laboratory or only its technical competence. Accreditation is normally awarded following successful laboratory assessment and is followed by appropriate surveillance."

³ ANSI Z34.1-1987 *Third-Party Certification Program* and its companion ANSI Z34.2-1987 *Self-Certification by Producer or Supplier* provides the definition: "Producer. The manufacturer, distributor, supplier or other party providing the product or service who is responsible for assuring conformity to all requirements of the referenced standards or specifications."

⁴ ISO Guide 48-1986 *Guidelines for Third-party Assessment and Registration of a Supplier's Quality System* defines an "assessment body" as "Third-party body which assesses and registers the Quality Systems of Suppliers with respect to published Quality Systems Standards."

The editor is unaware of any mandatory federal or state government criteria for evaluating private sector laboratory accreditation/designation programs. In the absence of such criteria, this information should only be used as one source of information for assessing individual programs. Parties interested in conformity assessment should also review NIST SP 774 *Directory of U.S. Private Sector Product Certification Programs*, which contains information on a number of closely related programs. Many of these programs are conducted primarily for recognition and use in government and nongovernment procurement, by federal, state, local, and municipal regulatory agencies. In addition to organizations whose laboratory accreditation/designation programs and systems were last reported in NBS-GCR-84-472 *Principal Aspects of U.S. Laboratory Accreditation Systems - Revised 1984*, all 132 organizations listed in NIST SP 774 were contacted. Each organization was sent a letter, questionnaire, a copy of the format to be used for each entry in this directory, a "sample" response page for guidance, along with a postage paid business reply envelope. Few responses were received. Of these, many provided only product certification program details. One organization, which reported in NIST SP 774 that it "required initial and periodic factory inspection and evaluation of the testing portion of a manufacturer's Q.A. system," returned an unsigned questionnaire with the notation: "We are an independent testing lab. We do not accredit other labs." Rather than indicating a lack of criteria or capabilities, such responses demonstrate the rapid expansion of commercial laboratories into the operation of certification programs. This emphasizes the value, if not need, of reviewing NIST SP 774 and other related publications by parties interested in this subject.

The private sector accreditation/designation programs listed in this directory are generally recognized as third-party programs of professional/trade societies, associations and other organizations for both products and services (e.g., inspection and certification of installations, identification of laboratories competent in specific fields of testing, etc.). There are numerous forms of first-party (producer/supplier) and second-party designation programs, many of which employ similar criteria.

DIRECTORY FORMAT

The professional and trade organization entries in this directory are organized in alphabetical order by organization/title. Appendix I contains several indices, including a product index. A description of the format used for each entry is contained in Appendix II.

Each entry contains:

- a description of the program;
- the date that the program was initiated;
- the authority under which the program is conducted;
- the fields of testing being accredited or designated, (employing where applicable ASTM 1224-88 *Standard Guide for Categorizing Fields of Testing for Laboratory Accreditation Purposes*);
- the products directly or indirectly affected by the testing;
- program requirements;
- availability of related publications; and
- other information.

Programs or systems included within this directory are updated or newly acquired listings based primarily on the 1984 directory, *Principal Aspects of U.S. Laboratory Accreditation Systems*.⁵ Appendix III, *Reconciliation of Professional/Trade Organization Accreditation Systems Appearing in NBS GCR 84-472*, provides information on programs listed in that publication which, for one reason or another, are no longer listed or which have been consolidated into single program entries.

PROGRAM DIFFERENCES

Requirements for private sector professional/trade organization laboratory accreditation/designation programs vary substantially from one another. The American Association for Laboratory Accreditation (A2LA) programs for providing assurance of the competence of its accredited laboratories for whatever purpose (e.g., governmental regulatory procurement) include a review of documentation on aspects of a laboratory's structure; personnel; equipment; and facilities; equipment calibration and maintenance procedures; quality control program; record keeping procedures; availability and use of operational/quality manuals; content and quality of actual test reports; testing conditions, methods and procedures; and/or sample handling and selection procedures; on-site inspection of the laboratory's equipment and facilities; and/or the use of a proficiency testing program.⁶ On the other hand, programs intended to designate laboratories that primarily test products and equipment for procurement purposes (procurements requiring product conformity to specified standards and specifications) concentrate on initial reviews and have fewer program follow-up or monitoring requirements.

Model code body laboratory accreditation and designation programs arise from the adoption of their codes by state, local, and municipal authorities having jurisdiction. Code officials familiar with the details and intention of specific code requirements are employed as assessors to review and evaluate laboratories. The depth of such reviews are based on the laboratory's scope of operations and the authority's dependence upon test report data to identify products conforming to code requirements and thus acceptable for installation and use. Code body accreditation/designation programs are an outgrowth of product evaluation and are often inappropriately assumed to be means of achieving laboratory recognition by governmental authorities. That is, they are equated with programs such as the U.S. Department of Labor's Occupational Safety and Health Administration's Nationally Recognized Testing Laboratory (NRTL) program. In fact, they are more appropriately defined as recommendations. The authority having jurisdiction to recognize a laboratory relies on the recommendation (accreditation/designation) of a private sector assessor organization (code body) known to be familiar with the requirements of the adopted code. Recognition remains the responsibility of the authority having jurisdiction. Code body laboratory accreditation/designation is another aspect of the continuing national and international challenge to separate two aspects: determination of laboratory competence (accreditation) and acceptance of products that conform to a code (product certification).

⁵ NBS GCR 84-472 *Principal Aspects of U.S. Laboratory Accreditation Systems - Revised 1984*, Charles W. Hyer, Editor, National Bureau of Standards, Department of Commerce, Gaithersburg, MD 20899.

⁶Laboratory proficiency testing is defined by ISO Guide 2 as the: "determination of laboratory testing performance by means of interlaboratory test comparisons."

The following chart summarizes the number of accreditation/designation type programs requiring each of 16 assessment criteria or procedures:

REQUIREMENT	NUMBER OF PROGRAMS WITH REQUIREMENT	
1 Submission of Appropriate Documentation	46	02
2 Independence (No Conflict-of-Interest)	26	22
3 Financial Stability	17	31
4 On-site Inspection	43	05
5 Staff Qualification Requirements	43	05
6 Adequate Q.A. System	42	06
7 Sample Control/Integrity Requirements	38	10
8 Recordkeeping Requirements	42	06
9 Test Report Content/Format Requirements	42	06
10 Available Operational Manuals/Instructions	41	07
11 Periodic Random Re-audit of Facilities	19	29
12 Periodic Scheduled Re-audit of Facilities	35	13
13 Participation in a Proficiency Testing Program	14	34
14 Adequacy of Facilities and Equipment	45	03
15 Equipment Maintenance/Calibration Requirements	44	04
16 *Prerequisite Personnel and other Qualifications	01	47

* The American Oil Chemists' Society, Page 29, requires an AOCS approved chemist on full-time staff for laboratories to apply for accreditation. Other qualifications which can not be quantified include membership by the laboratory in the association providing accreditation. Many of AOCS's formal procedures allow for non-member laboratories, such as government laboratories, to be accredited. However, in reality, all accreditations are held by members.

When reading this chart, a few important anomalies should first be considered.

The American Association of State Highway and Transportation Officials (AASHTO) Materials Reference Laboratory (AMRL), Page 23, and the American Society for Testing and Materials (ASTM) Cement and Concrete Reference Laboratory (CCRL), Page 33, each show two requirements: "On-Site Inspection" and "Participation in a Proficiency Testing Program." Both were started (AMRL in 1965, CCRL in 1929) as Research Associate Programs at NIST. Together they designate some 1000 laboratories that have been evaluated by using standards and test methods in two NIST Letter Circulars 1122 and 1044. Employing two of the sixteen requirements, these programs are not laboratory accreditation programs. However, they provide valuable evidence of testing laboratory competence that is used by others that may accredit laboratories. Since both of these program operations pre-date most testing laboratory accreditation programs and, for that matter, laboratory accreditation criteria standards, they are often mistakenly identified as laboratory accreditation programs. With the AMRL and CCRL testing laboratory

designation program information detailed herein, it is now possible for interested parties to determine what additional requirements, if any, may be appropriate for accrediting laboratories that participate in these programs.

By comparing NIST's National Voluntary Laboratory Accreditation (NVLAP) listing, contained in NIST SP 808 *Directory of Federal Government Laboratory Accreditation/Designation Programs* with the chart, the nature and extent of each of the NIST LAP's may be clarified.

Reports on laboratory designations made by independent testing laboratories that operate third-party certification programs indicate that "independence (no-conflict-of-interest)" is a requirement. Yet these reports also include the accreditation of laboratories of participating manufacturers when such laboratories are needed to perform the in-house quality assurance testing required for certification.

Other anomalies occur in the categories: "Periodic Random Reaudit," which may be limited by such realities as national security clearance requirements; and "Participation in Proficiency Testing," when such a requirement may be applicable to only certain types of accreditations or to only limited types of testing within the scope of the accreditation.

It is interesting to note from the chart on Page 4 how few (14 of 48) private sector programs include proficiency testing. Yet proficiency testing is widely accepted as an excellent means of monitoring conformity between reassessment periods (on-site inspections).

ACCEPTANCE OF ACCREDITATION PROGRAM RESULTS BY FEDERAL, STATE, LOCAL, AND MUNICIPAL GOVERNMENT AGENCIES

The accreditation decisions made by some private sector laboratory accreditation programs can influence the outcome of applications for laboratory accreditation received by federal, state, local and municipal governments. A few are even mentioned by name under the category "Other Recognition," listed in each entry. However, until there is some formal uniform governmental procedure for the recognition of private sector testing laboratory accreditation programs, government recognition of private sector programs will continue to be sporadic at best. Formal recognition presents three major challenges:

1. The need for using independent third-party private sector accreditation programs must be justified if an alternative national government system (such as NIST's NVLAP) is available at a comparable fee;

2. Mutual recognition is needed among comparable programs to prevent needless, costly duplication. This raises the problem of how private sector programs (which depend upon participating laboratory fees for existence) can remain financially viable if mutual recognitions among programs occur;

3. Most private sector testing laboratory accreditation efforts are subtasks, undertaken as part of the operation of product certification programs. Certification programs need to identify not only laboratories competent to test, but also laboratories that will provide virtually identical test results — given the competition among participating producers. The need for such assurances may cause recognition of multiple accreditation programs by certification programs to be financially unviable.

DIRECTORY CHANGES

Private sector professional and trade organizations are encouraged to notify NIST of any changes in their laboratory accreditation programs or of new programs. Such information should be sent to:

Standards Code and Information Program
National Institute of Standards and Technology
Administration Building, Room A629
Gaithersburg, MD 20899
(301) 975-4031

OTHER REFERENCES

The Standards Code and Information Program of the National Institute of Standards and Technology (NIST) periodically develops and publishes standards-related documents, such as this one, as a service to producers and users of standards, both in government and in the private sector. The report NISTIR 4576 *Laboratory Accreditation in the United States* (a sequel to NBSIR 87-3577 *The ABC's of Standards-Related Activities in the United States*, and NBSIR 88-3821, *The ABC's of Certification Activities in the United States*) are designed to provide the reader with additional information on testing laboratory accreditation. It is an introduction to laboratory accreditation for those not fully familiar with the subject, or its many recently developed criteria. Interested readers are also encouraged to review NIST SP 808 *Directory of Federal Government Laboratory Accreditation/Designation Programs*. This publication provides updated information on federal government laboratory accreditation and similar type programs conducted by the federal government. This report, NIST SP 808, and its companion volume NIST SP 815 *Directory of State and Local Government Laboratory/Designation Programs* complete NIST's laboratory accreditation directory trilogy.

Professional/Trade (PT) Organization: AIR MOVEMENT AND CONTROL ASSOCIATION (AMCA)
 30 West University Drive
 Arlington Heights, IL 60004

Phone: 708-394-0150
Fax: 708-253-0088
Telex: 27 0650 MACA ARHT

Date Established: 1963.

Scope: To develop accurate and reliable testing procedures, to serve as a communications center on all matters related to the air movement and control industry, and to compile information of use to the industry.

Fields of Testing: Acoustic/vibration measurement, construction materials, electrical, mechanical, and thermal.

Products Tested: Centrifugal fans, propeller fans, axial fans, power roof ventilators, ceiling ventilators, evaporative coolers, louvers, dampers and shutters, air curtains, ceiling fans.

Standards/Test Methods: AMCA Standards and Referenced Test Methods available from AMCA.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	x
Financial Stability	_____
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	x
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

Accreditation Terminology: Registered Laboratories.

Compliance Conformance:	Voluntary for approval of laboratories, but approved laboratories must participate in the program.
Authority:	The association bylaws and program approval represents authority.
Fees:	There is a fee to participate, which is determined by AMCA. A fee schedule is available from AMCA.
Accreditation Action Frequency:	Every 3 years or sooner if a need is indicated.
Assessors:	Since AMCA maintains a complete laboratory facility, the assessors are qualified experienced engineering staff.
Proficiency Testing Program:	None.
Appeal Procedure:	Appeals are made through the technical staff operations.
Publications:	AMCA Standards - Program Descriptions.
Logo:	None.
No. of Labs:	Thirty-five (35) domestic and four (4) foreign as of January 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	Product Directory includes a Registered Laboratories list.
Int'l Recognition/Agreements:	Manufacturers in eighteen (18) foreign countries are members of AMCA.
Other Recognition:	None.

**Professional/Trade
(PT) Organization:**

AMERICAN ARCHITECTURAL MANUFACTURERS
ASSOCIATION (AAMA)
1540 E. Dundee Road, Suite 310
Palatine, IL 60067

**Phone:
Fax:**

708-202-1350
708-202-1480

Date Established:

1979.

Scope:

Establishes an organized method for a testing agency to use in evaluating fenestration products, their components, finishes, and assembly into the final product.

Fields of Testing:

Construction materials, mechanical, and thermal.

Products Tested:

Plumbing, carpentry, tile assemblies, miscellaneous trade work, building assemblies.

**Standards/Test
Methods:**

AAMA's Standards and Engineering Design Rules with all referenced federal and voluntary standards, specifications, and testing procedures approved by the governing Certification Committee.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u>X</u>
Independence (No Conflict-of-Interest)	<u>X</u>
Financial Stability	<u> </u>
On-site Inspection	<u>X</u>
Staff Qualification Requirements	<u>X</u>
Adequate Q.A. System	<u>X</u>
Sample Control/Integrity Requirements	<u>X</u>
Recordkeeping Requirements	<u>X</u>
Test Report Content/Format Requirements	<u>X</u>
Available Operational Manuals/Instructions	<u>X</u>
Periodic Random Re-audit of Facilities	<u>X</u>
Periodic Scheduled Re-audit of Facilities	<u> </u>
Participation in a Proficiency Testing Program	<u>X</u>
Adequacy of Facilities and Equipment	<u>X</u>
Equipment Maintenance/Calibration Requirements	<u>X</u>
Other:	<u> </u>

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

**Accreditation
Terminology:**

Approved Laboratories.

Compliance Conformance:	Mandatory for certification testing.
Authority:	American Architectural Manufacturers Association (AAMA).
Fees:	The fee to participate is set by the AAMA and a fee schedule can be obtained from AAMA.
Accreditation Action Frequency:	Re-qualification cycle is 2 years. Laboratories must attend laboratory meetings at Annual Convention to remain accredited.
Assessors:	The AAMA Committee assesses the laboratories.
Proficiency Testing Program:	No formal program is presently employed.
Appeal Procedure:	Appeals may be made to AAMA Certification Policy Committee, in writing, within 30 days of denial. Hearings are held before AAMA Certification Policy Committee at regularly scheduled meetings of this Committee.
Publications:	Certified Product Directory, Program Procedural Guides, etc.
Logo:	AAMA.
No. of Labs:	Fourteen (14) as of May 1991.
Availability of Accreditation:	Open to all U.S. testing laboratories.
List/Directory of Accredited Labs:	List of AAMA Approved Laboratories.
Int'l Recognition/Agreements:	None.
Other Recognition:	None.

**Professional/Trade
(PT) Organization:**

**AMERICAN ASSOCIATION FOR LABORATORY
ACCREDITATION (A2LA)**
656 Quince Orchard Road #304
Gaithersburg, MD 20878-1409

**Phone:
Fax:**

301-670-1377
301-869-1495

Date Established:

1978.

Scope:

To recognize the competence of all types of laboratories. To register quality systems of environmental reference materials suppliers and certify such materials.

Fields of Testing:

Acoustics/vibration, biological, chemical, construction materials, electrical, geotechnical, mechanical, medical, metrology, nondestructive, optics and photometry, and thermal per ASTM E1224 and "environmental."

Products Tested:

Construction materials, automotive parts and materials, environment, fasteners, food, drugs, etc. Often the product is not known when users accept A2LA accreditation.

**Standards/Test
Methods:**

Definitions based on ISO/IEC Guide 2; national and international voluntary and governmental standards, protocols, and test methods appropriate to the fields of testing; documented company methods available to the public.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u>X</u>
Independence (No Conflict-of-Interest)	<u>X</u>
Financial Stability	<u> </u>
On-site Inspection	<u>X</u>
Staff Qualification Requirements	<u>X</u>
Adequate Q.A. System	<u>X</u>
Sample Control/Integrity Requirements	<u>X</u>
Recordkeeping Requirements	<u>X</u>
Test Report Content/Format Requirements	<u>X</u>
Available Operational Manuals/Instructions	<u>X</u>
Periodic Random Re-audit of Facilities	<u>X</u>
Periodic Scheduled Re-audit of Facilities	<u>X</u>
Participation in a Proficiency Testing Program	<u>X</u>
Adequacy of Facilities and Equipment	<u>X</u>
Equipment Maintenance/Calibration Requirements	<u>X</u>
Other: ASTM E548, ISO/IEC Guides 25 and 38	<u>X</u>

Other Information:	Requirements are comparable to those contained in ASTM E548-84, <i>Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies</i> ; ISO/IEC Guide 25, <i>General requirements for the competence of calibration and testing laboratories</i> ; and ISO/IEC Guide 38, <i>General Requirements for the Acceptance of Testing Laboratories</i> .
Accreditation Terminology	Referenced from ISO/IEC Guide 2, <i>Accredited Laboratory: Testing Laboratory to Which Accreditation has been Granted</i> .
Compliance Conformance:	Accreditation is usually voluntary, but may become mandatory through recognition/adoption of A2LA's program by authorities having jurisdiction.
Authority:	The organization's bylaws, official adoptions, or other actions which authorize the organization to conduct a laboratory accreditation or designation system.
Fees:	The basic fee plus an estimated additional fee for assessor cost; fees and costs increase with expansion of the scope of accreditation, number of laboratory sites, etc.
Accreditation Action Frequency:	Accreditation is continuous. An annual review and a reassessment every 2 years is required.
Assessors:	Board of Directors determines qualifications of assessors and has designated 38 qualified as of January 1, 1991.
Proficiency Testing Program:	Proficiency tests are required where feasible. Over 85 percent of accredited laboratories are involved in such programs.
Appeal Procedure:	First appeal to Accreditation Council for reconsideration; second appeal may be made to the Board of Directors.
Publications:	Annual <i>Directory of Accredited Laboratories</i> is available for a fee; a newsletter is published for members; and application packages, which vary by field of testing, are available for a fee which is credited to the application fee.
Logo:	A2LA Logo may be used by accredited laboratories in advertising and on reports if data are from test methods within accreditation scope.
No. of Labs:	Two hundred sixty-five (265) as of January 1, 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	<i>Directory of Accredited Laboratories</i> , published at least yearly, is available from A2LA, the U.S. Department of Defense, and the Information Handling Service.

**Int'l Recognition/
Agreements:**

A Memorandum of Understanding (MOU) for mutual recognition of laboratories between the Hong Kong government (HOKLAS) and A2LA is based on ISO/IEC Guide 54, *Testing Laboratory Accreditation Systems - General Recommendations for the Acceptance of Accreditation Bodies*; and ISO/IEC Guide 55, *Testing Laboratory Accreditation Systems - General Recommendations for Operation*. Similar MOU's have been signed with NATA, Australia and TELARC, New Zealand.

Other Recognition:

"Environmental" accreditations are recognized by the States of Kansas, New Mexico, and Washington and U.S. Environmental Protection Agency Regions IV and VI. "Construction materials testing" accreditations are recognized in Harris County, Dallas, Texas, and New York City governmental bodies. General Motors recognizes all A2LA accreditations. Other recognitions on file.

Professional/Trade (PT) Organization: AMERICAN ASSOCIATION FOR THE ACCREDITATION OF LABORATORY ANIMAL CARE (AAALAC)
 9650 Rockville Pike
 Bethesda, MD 20814

Phone: 301-564-5111
Fax: 301-564-5643

Date Established: 1965.

Scope: A system for the accreditation of laboratory animal care facilities and programs concerned with: encouraging high standards for the care and use of laboratory animals, including appropriate veterinary care; controlling variables that might adversely affect animal research; and protecting the health of animal research workers.

Fields of Testing: Biological testing.

Products Tested: Drugs, medicines, veterinary and medical products.

Standards/Test Methods: Uses the *Guide for the Care and Use of Laboratory Animals*, Department of Health and Human Services (HHS) Publication (NIH) 78-23, 1978, and subsequent revisions as its primary standard for evaluating laboratory animal care facilities and programs. Numerous other references and information are employed.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	_____
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	_____
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information: None.

Accreditation Terminology: Accredited Animal Laboratories.

Compliance Conformance:	Voluntary.
Authority:	Bylaws of the AAALAC.
Fees:	There is a fee to participate. Fees are set by the AAALAC Council, and fee schedules can be obtained from the Council.
Accreditation Action Frequency:	An annual report is required from each accredited institution, site revisits to accredited facilities are conducted every 3 years. The site visit and report evaluation process is essentially the same as for new applicants.
Assessors:	Professionally trained voluntary and consulting personnel from the biomedical research community are used.
Proficiency Testing Program:	None.
Appeal Procedure:	Appeals are through Council to the Board of Trustees.
Publications:	Applications; brochure on <i>Objectives, Organization, History, Accreditation Procedure, Standards, Laboratory Animal Care Facility-Definition, Financing, Questions and Answers; Guide for the Care and Use of Laboratory Animals</i> ; and periodic reports, including lists of accredited laboratories by group classification.
Logo:	None.
No. of Labs:	Five hundred forty (540) as of January 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	<i>Directory of Accredited Laboratories.</i>
Int'l Recognition/Agreements:	None.
Other Recognition:	Recognized by the U.S. Department of Agriculture (USDA) and Public Health Service of (HHS).

**Professional/Trade
(PT) Organization:**

AMERICAN ASSOCIATION OF BLOOD BANKS (AABB)
INSPECTION AND ACCREDITATION PROGRAM (I&A)
1117 North 19th Street, Suite 600
Arlington, VA 22209-1742

Phone:

703-528-8200

Fax:

703-527-8036

Date Established:

1947.

Scope:

Strives to improve the quality and safety of transfusions through the inspecting and accrediting of facilities, and assists medical directors of blood banks and transfusion services in determining whether methods, procedures, and personnel meet established AABB standards.

Fields of Testing:

Biological and medical.

Products Tested:

Human blood and its components.

**Standards/Test
Methods:**

AABB's Essentials standards for education programs, the self-study process and peer evaluation developed by the program, faculty and evaluation of the program by the AABB's Committee on Education (CE) Subcommittee on Accreditation (SOA), a site survey, recommendations based on self-study and on-site review.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	_____
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	x
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

**Accreditation
Terminology:**

Accredited Blood Bank (Laboratory-Facility).

Compliance Conformance:	Voluntary; however, a number of states accept AABB inspections as equivalent to state inspections for licensing requirements.
Authority:	AABB.
Fees:	There is a fee to participate for non-AABB facilities, but no fees are imposed on AABB members.
Accreditation Action Frequency:	Yearly assessment, more often if necessary.
Assessors:	Blood bank professionals serve as inspectors.
Proficiency Testing Program:	None required, but participation in special proficiency testing programs of the College of American Pathologists is encouraged.
Appeal Procedure:	Appeals procedures are in accordance with Bylaws of AABB and I&A Procedures - Blood Bank Weekly.
Publications:	Program requirements and detailed information, such as <i>Site-Surveyor's Manual</i> and <i>Blood Bank Weekly</i> .
Logo:	None.
No. of Labs:	Two thousand four hundred (2400) as of June 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	Membership Directory.
Int'l Recognition/Agreements:	Recognized in forty-four (44) foreign countries.
Other Recognition:	Recognized by the Food and Drug Administration.

**Professional/Trade
(PT) Organization:**

AMERICAN ASSOCIATION OF MOTOR VEHICLE
ADMINISTRATION (AAMVA)
4200 Wilson Blvd., Suite 600
Arlington, VA 22203

**Phone:
Fax:**

703-522-4200
703-522-1553

Date Established:

Program for voluntary laboratory accreditation developed in 1970, first implemented in 1971. Equipment certification program established in 1966.

Scope:

Program is for the certification of equipment for motor vehicles for safety, as required by one or more of the jurisdictions delegating authority to AAMVA. Laboratory accreditation is based on the laboratory's capability to test to the requirements of protocols covering the equipment.

Fields of Testing:

Acoustic/vibration, chemical, electrical, mechanical, and optics and photometry.

Products Tested:

Motor vehicle safety equipment, such as: lighting equipment; auxiliary lighting equipment; special vehicle equipment; motor cycle and bicycle equipment; safety equipment from air conditioning units; hoses; sun screening devices; brake fluids; safety glass; and trailer hitches.

**Standards/Test
Methods:**

Federal Motor Vehicle Safety Standards (FMVSS) of the National Highway Traffic Safety Administration (NHTSA); Standards and Recommended Practices of Society of Automotive Engineers (SAE); Standards and test methods of the ASTM; other national voluntary and state requirements applicable to certifications; and Canadian province requirements.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u> x </u>
Independence (No Conflict-of-Interest)	<u> </u>
Financial Stability	<u> </u>
On-site Inspection	<u> x </u>
Staff Qualification Requirements	<u> x </u>
Adequate Q.A. System	<u> x </u>
Sample Control/Integrity Requirements	<u> x </u>
Recordkeeping Requirements	<u> x </u>
Test Report Content/Format Requirements	<u> x </u>
Available Operational Manuals/Instructions	<u> x </u>
Periodic Random Re-audit of Facilities	<u> </u>
Periodic Scheduled Re-audit of Facilities	<u> x </u>
Participation in a Proficiency Testing Program	<u> </u>
Adequacy of Facilities and Equipment	<u> x </u>
Equipment Maintenance/Calibration Requirements	<u> x </u>
Other:	<u> </u>

Other Information:	Requirements are comparable to those contained in ASTM E548-84, <i>Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies</i> .
Accreditation Terminology	Accredited (Approved) Motor Vehicle Safety Equipment Testing Laboratories.
Compliance Conformance:	Voluntary as to participation by the laboratory; however, equipment requiring certification must be tested and test report provided from an AAMVA accredited laboratory.
Authority:	The Equipment Certification Program is based on agreement from the participating states and Canadian provinces delegating authority for certification of safety equipment to AAMVA. Laboratory accreditation stems from administrative procedures established by AAMVA to accomplish the task.
Fees:	There is a fee to participate. The fees are set by the AAMVA.
Accreditation Action Frequency:	Application document must remain current. On-site, 2 year inspection cycle.
Assessors:	Professional staff or outside consultants to Director, Safety Equipment Services.
Proficiency Testing Program:	None.
Appeal Procedure:	Informal appeals procedures include Board of AAMVA.
Publications:	<i>Manufacturers' Guide</i> , lists requirements for equipment certification and the names of accredited laboratories. <i>Certified Vehicle Devices Handbook</i> , lists the products which have been certified by AAMVA.
Logo:	None.
No. of Labs:	Seventy-five (75) as of June 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	<i>AAMVA Approved Laboratories Directory</i> .
Int'l Recognition/Agreements:	Agreement as "Agent" for most states and provinces of Canada.
Other Recognition:	AAMVA is an agent for state and Canadian province approvals of safety equipment.



NIST

UNITED STATES DEPARTMENT OF COMMERCE
National Institute of Standards and Technology
Gaithersburg, Maryland 20899

The enclosed NIST SP 831, Directory of Professional/Trade Organization Laboratory Accreditation/Designation Programs, has been found to contain an error, as follows:

<u>PAGE</u>	<u>ITEM</u>	<u>CORRECTION</u>
21	Professional/Trade (PT) Organization	Delete "National Institute of Standards and Technology (NIST)" from this item.

PLEASE NOTE THIS CORRECTION

Copies of this publication can be obtained from the
Superintendent of Documents, U.S. Government Printing Office,
Washington, DC 20402, stock # 003-003-03144-5, \$7.50 ea.

**Professional/Trade
(PT) Organization:**

**AMERICAN ASSOCIATION OF STATE HIGHWAY AND
TRANSPORTATION OFFICIALS (AASHTO)
ACCREDITATION PROGRAM (AAP) AND
NATIONAL INSTITUTE OF STANDARDS
AND TECHNOLOGY (NIST)
444 N. Capital Street, N.W., Suite 225
Washington, DC 20001**

Phone: 202-624-5800
Fax: 202-624-5806

Date Established: 1988.

Scope: Provides a mechanism for formally recognizing the competency of a testing laboratory to perform specific tests on asphalt cements, cut-back asphalts, emulsified asphalts, soils, aggregates, bituminous concretes, and portland cement concrete.

Fields of Testing: Construction materials.

Products Tested: Asphalt cements, cut-back asphalts, emulsified asphalts, soils, aggregates, bituminous concretes, and portland cement concrete.

**Standards/Test
Methods:** *AAP Procedures Manual* can be obtained from AASHTO.

**Assessment
Criteria/Procedures:** The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	x
Financial Stability	_____
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	x
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	x
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information:	Requirements are comparable to those contained in ASTM E548-84, <i>Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies</i> ; ISO/IEC Guide 25, <i>General Requirements for the Technical Competence of Testing Laboratories</i> ; and ASTM E994, <i>Standard Guide for Laboratory Accreditation Systems</i> .
Accreditation Terminology:	Accredited Laboratories.
Compliance Conformance:	Voluntary.
Authority:	Association bylaws.
Fees:	Fees for AASHTO (AMRL) services plus annual administrative fee. Fees for CCRL services paid directly to Cement and Concrete Reference Laboratory (CCRL)/NIST by laboratory.
Accreditation Action Frequency:	Annually and after each on-site inspection.
Assessors:	Routine on-site inspections of CCRL and AMRL. AMRL provides technical support to AAP in assessing laboratory performance.
Proficiency Testing Program:	Appropriate CCRL and AMRL programs.
Appeal Procedure:	Two level appeal procedures described in AAP Procedures Manual.
Publications:	None.
Logo:	None.
No. of Labs:	Seventy-four (74) as of March 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	<i>AAP Directory of Accredited Laboratories</i> (issued quarterly).
Int'l Recognition/Agreements:	None.
Other Recognition:	Arizona DOT, New Jersey DOT, Arkansas DOT, Nevada DOT, and Virginia DOT.

**Professional/Trade
(PT) Organization:**

AMERICAN ASSOCIATION OF STATE HIGHWAY
AND TRANSPORTATION OFFICIALS (AASHTO)
MATERIALS REFERENCE LABORATORY (AMRL) AND
NATIONAL INSTITUTE OF STANDARDS
AND TECHNOLOGY (NIST)
Bldg. 226, Room A365
Gaithersburg, MD 20899

**Phone:
Fax:**

301-975-6704
301-330-1956

Date Established:

1965 as Research Associate Program at NIST.

Scope:

The four primary functions of the AMRL are: (1) conducting on-site inspections of apparatus and procedures used in the testing of aggregates, soils and bituminous materials; (2) distributing proficiency testing samples; (3) studying testing problems; and (4) participating in the work of technical committees. AMRL does not accredit laboratories, but its on-site inspection and proficiency sample programs are used by organizations that do accredit.

Fields of Testing:

Construction materials.

Products Tested:

Aggregates, soils, bituminous materials.

**Standards/Test
Methods:**

NIST Letter Circular 1122 is a published list of standards/test methods for which laboratories may be evaluated.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

- Submission of Appropriate Documentation _____
- Independence (No Conflict-of-Interest) _____
- Financial Stability _____
- On-site Inspection _____ x
- Staff Qualification Requirements _____
- Adequate Q.A. System _____
- Sample Control/Integrity Requirements _____
- Recordkeeping Requirements _____
- Test Report Content/Format Requirements _____
- Available Operational Manuals/Instructions _____
- Periodic Random Re-audit of Facilities _____
- Periodic Scheduled Re-audit of Facilities _____
- Participation in a Proficiency Testing Program _____ x
- Adequacy of Facilities and Equipment _____
- Equipment Maintenance/Calibration Requirements _____
- Other: _____

Other Information:	Requirements are comparable to those contained in ASTM D3666, <i>Standard Practice for Evaluation of Inspection and Testing Agencies for Bituminous Pavement Materials</i> ; ASTM D4561, <i>Standard Practice for Quality Control Systems for an Inspection and Testing Agency for Bituminous Pavement Materials</i> ; and ASTM D3740, <i>Standard Practice for Evaluation of Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction</i> .
Accreditation Terminology:	None.
Compliance Conformance:	Voluntary.
Authority:	None.
Fees:	There is a fee to participate which is set by AASHTO Subcommittee on Materials. A fee schedule is available from AASHTO.
Accreditation Action Frequency:	None.
Assessors:	AMRL Laboratory Inspectors.
Proficiency Testing Program:	AMRL Proficiency Sample Program.
Appeal Procedure:	None.
Publications:	NIST Letter Circular 1131, <i>The Proficiency Sample Program of the AMRL</i> .
Logo:	None, but the acronym AMRL is widely referenced.
No. of Labs:	Three hundred (300) designated as of May 1991.
Availability of Accreditation:	Evaluation is available to all laboratories, foreign and domestic. Also available to all federal, state, and local government labs, independent labs, material producer labs, and laboratories of educational organizations.
List/Directory of Accredited Labs:	None.
Int'l Recognition/Agreements:	None.
Other Recognition:	Broadly recognized throughout the United States.

**Professional/Trade
(PT) Organization:**

AMERICAN INDUSTRIAL HYGIENE ASSOCIATION (AIHA)
345 White Pond Drive
P.O. Box 8390
Akron, OH 44320

**Phone:
Fax:**

216-873-2442
216-873-1642

Date Established:

1973.

Scope:

Accreditation of industrial hygiene laboratories and single-analyst asbestos laboratories through multi-divisional industrial hygiene (IH)/ Environmental/Materials characterization laboratories and the maintenance of accredited status of laboratories through continued demonstration of competence and performance.

Fields of Testing:

Biological, chemical, and mechanical.

Products Tested:

Water, air, components of the environment, air filters, and industrial hygiene equipment.

**Standards/Test
Methods:**

Standards prescribed by the Accreditation Committee. Test procedures normally employed are referenced by the National Institute for Occupational Safety and Health, Department of Health and Human Services (NIOSH/HHS).

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	_____
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	_____
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	x
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information:

AIHA procedures are requirements comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies*. ISO Guides 54 and 55 are also employed.

Accreditation Terminology:	Accredited Industrial Hygiene Laboratories.
Compliance Conformance:	Voluntary.
Authority:	The Board of Directors of the American Industrial Hygiene Association (AIHA) and the appointed Laboratory Accreditation Committee.
Fees:	There is a fee to participate and a proficiency testing fee. The fees are set by the Laboratory Accreditation Committee, and fee schedules can be obtained from the Committee.
Accreditation Action Frequency:	Site visits will generally take place every 3 years, unless additional site visits are deemed necessary by the Committee.
Assessors:	Personnel, judged competent through training and experience in industrial hygiene, will conduct site visits on behalf of the Laboratory Accreditation Committee.
Proficiency Testing Program:	The Proficiency Analytical Testing (PAT) program administered by AIHA, with statistical analysis done by NIOSH, is a mandatory part of the laboratory accreditation program.
Appeal Procedure:	Appeals are to the Laboratory Accreditation Committee and the AIHA Board of Directors.
Publications:	Criteria documentation, applications, etc. Newsletter for the accredited laboratories entitled, <i>Accreditation News and Notes</i> . The <i>American Industrial Hygiene Journal</i> carries official news.
Logo:	None.
No. of Labs:	Three hundred sixty (360) as of October 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	Directory of Accredited Laboratories.
Int'l Recognition/Agreements:	Laboratories accredited in Canada, Spain, Japan, and Philippines. Other foreign have indicated interest.
Other Recognition:	Some state and local governments may require or recommend AIHA approval or PAT Proficiency Test Use.

**Professional/Trade
(PT) Organization:**

AMERICAN INSTITUTE OF STEEL
CONSTRUCTION, INC.(AISC)
One East Wacker Drive, Suite 3100
Chicago, IL 60601-2001

Phone: 312-670-2400
Fax: 312-670-5403
Telex: 910-350-6816

Date Established: 1921.

Scope: System to certify that a structural steel fabricating plant has the personnel, organization, experience, procedures, knowledge, equipment capability and commitment to produce fabricated steel and metal building systems of the required quality for a given category.

Fields of Testing: Chemical, construction materials, and mechanical.

Products Tested: Conventional steel structures, complex steel building structures, major steel bridges, and metal building systems.

Standards/Test Methods: Standards, procedures, test/inspection methods of the American Institute of Steel Construction (AISC), with referenced standards and test/inspection methods, as appropriate, for the three levels of steel fabrication.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	_____
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	_____
Recordkeeping Requirements	x
Test Report Content/Format Requirements	_____
Available Operational Manuals/Instructions	_____
Periodic Random Re-audit of Facilities	x
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

Accreditation Terminology:	Certified Laboratories
Compliance Conformance:	Voluntary.
Authority:	Bylaws and procedures of the American Institute of Steel Construction (AISC).
Fees:	There is a fee to participate, which is set by AISC. The fee schedule can be obtained from AISC.
Accreditation Action Frequency:	Accreditation is reissued annually.
Assessors:	All assessors are professionally trained, experienced personnel chosen by the accrediting agency (AISC).
Proficiency Testing Program:	None.
Appeal Procedure:	Appeals may be made through the Board of Arbitrators. The board will review evidence and make a final decision.
Publications:	Description of Program, Application Instructions, Inspection - Evaluation Check Lists and Scoring Procedure for Categories I, II, III, and MB.
Logo:	None
No. of Labs:	Two hundred forty-seven (247) as of April 1991.
Availability of Accreditation:	Available to foreign and domestic steel fabricators and metal building manufacturers.
List/Directory of Accredited Labs:	<i>AISC Register of Certified Plants</i> is available.
Int'l Recognition/Agreements:	None.
Other Recognition:	AASHTO, Building Officials and Code Administrators International (BOCA), state departments of transportation, building owners, architects and engineers. Various state, city, and local building departments.

**Professional/Trade
(PT) Organization:**

AMERICAN OIL CHEMISTS' SOCIETY (AOCS)
 Certified Laboratory Program
 P.O. Box 3489
 Champaign, IL 61821-0489

**Phone:
Fax:
Telex:**

217-359-2344
 217-351-8091
 404472 OIL CHEM CHN

Date Established:

1985.

Scope:

To provide accredited laboratories for the referee analysis of soybean meal required by the National Soybean Processors Association (NSPA), and other categories of analysis.

Fields of Testing:

Chemical and metrology.

Products Tested:

Oils, other lipids, and associated substances

**Standards/Test
Methods:**

Methods of analysis for Smalley check samples - AOCS and referenced procedures.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	_____
On-site Inspection	_____
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	_____
Periodic Scheduled Re-audit of Facilities	_____
Participation in a Proficiency Testing Program	x
Adequacy of Facilities and Equipment	_____
Equipment Maintenance/Calibration Requirements	_____
Other:	_____

Other Information:

In order to qualify as a Certified Laboratory, the laboratory must have an AOCS approved chemist on staff full time.

**Accreditation
Terminology**

Certified Laboratories.

**Compliance
Conformance:**

Voluntary.

Authority:	Bylaws of AOCS and certification procedures..
Fees:	There is a fee to participate, which is set by AOCS.
Accreditation Action Frequency:	The approved chemist must participate and perform satisfactorily each year in at least the Smalley series on soybean meal testing. In addition, each year the laboratory receives 12 "blind" check samples.
Assessors:	The Examination Board consisting of five (5) active members.
Proficiency Testing Program:	The certified laboratory must submit satisfactory results for eight (8) of each twelve (12) blind samples received annually.
Appeal Procedure:	An appeal process is available to the decertified lab and the lab may apply for certification again, provided all the appropriate criteria are met.
Publications:	Combination check lists/application forms for two related programs – approved chemist and certified laboratory. A list of the approved chemists, along with the categories for which they are approved, is updated and published each year in the <i>AOCS Membership Directory</i> and the <i>AOCS Book of Official Methods</i> .
Logo:	None.
No. of Labs:	Sixty-three (63) as of August 1991.
Availability of Accreditation:	Accreditation available to all labs, foreign and domestic.
List/Directory of Accredited Labs:	<i>A list of certified labs</i> is updated and published each year in the same manner as the <i>Approved Chemist List</i> .
Int'l Recognition/Agreements:	None.
Other Recognition:	Listings appear in the National Soybean Processors' Association Rule Book, National Cottonseed Products Association Rule Book, American Soybean Association Rule Book, etc. The National Cottonseed Products Association and the National Soybean Producers Association publish listings of laboratories.

Professional/Trade (PT) Organization: AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
TEST MONITORING CENTER (TMC)
4400 Fifth Avenue
Pittsburgh, PA 15213

Phone: 412-268-3315
Fax:

Date Established: 1973.

Scope: To establish, maintain and operate a reference oil calibration system for assuring that lubricating oil engine test procedures published by ASTM and under the jurisdiction of Committee D02.B are conducted correctly.

Fields of Testing: Chemical and mechanical.

Products Tested: Petroleum refinery products.

Standards/Test Methods: Certain lubricating oil engine test procedures published by ASTM as requested by Committee D02.B.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	_____
On-site Inspection	_____
Staff Qualification Requirements	_____
Adequate Q.A. System	_____
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	_____
Periodic Random Re-audit of Facilities	_____
Periodic Scheduled Re-audit of Facilities	_____
Participation in a Proficiency Testing Program	x
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies*. The capability of a laboratory to meet the reference oil proficiency testing requirements is the basic criteria, with physical, human and quality systems resources judged as a function of the reference oil tests.

Accreditation Terminology Calibrated Laboratory.

Compliance Conformance:	Voluntary as to laboratory participation. However, for the acceptance of certain data concerning oil products by U.S. military, etc., laboratory participation is required.
Authority:	American Society for Testing and Materials (ASTM) bylaws, Committee D-2 on Petroleum Products and Lubricants, Subcommittee B, Lubrication.
Fees:	Approval fees charged per reference calibration oil test, with a fixed individual reference oil charge per gallon.
Accreditation Action Frequency:	TMC monitors individual laboratory reference test severity; works with laboratories to control severity shifts; reports to Tech B test severity trends using summarizing industrywide data; and continues to improve operating procedures, practices, and rating methods to reduce variation in performance among testing laboratories.
Assessors:	The experienced, trained staff of the TMC provides all assessment services.
Proficiency Testing Program:	The entire program is based on reference sampling.
Appeal Procedure:	Appeal process employs ASTM bylaws.
Publications:	TMC program literature and ASTM Engine Test publications.
Logo:	None.
No. of Labs:	Twenty (20) calibrated labs as of April 1991.
Availability of Accreditation:	Program currently certifies laboratories in Europe, South America and North America.
List/Directory of Accredited Labs:	List of <i>TMC Calibrated Reference Laboratories</i> .
Int'l Recognition/Agreements:	None.
Other Recognition:	None.

Professional/Trade (PT) Organization: AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) AND NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY (NIST) CEMENT AND CONCRETE REFERENCE LABORATORY (CCRL) Building 226, Room A365 Gaithersburg, MD 20899

Phone: 301-975-6704
Fax: 301-330-1956

Date Established: 1929 as Research Associate Program at NIST.

Scope: The four primary functions of the CCRL are: (1) conducting on-site inspections of apparatus and procedures used in the testing of cement, concrete, aggregates, reinforcing steel and pozzolans; (2) distributing proficiency test samples; (3) studying testing problems; and (4) participating in the work of technical committees. CCRL does not accredit laboratories, but its on-site inspection and proficiency sample programs are used by laboratory accreditation organizations.

Fields of Testing: Construction materials.

Products Tested: Cement, concrete, aggregates, reinforcing steel and pozzolans.

Standards/Test Methods: *NIST Letter Circular 1044* is a published list of standards/test methods for which laboratories may be evaluated.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

- Submission of Appropriate Documentation _____
- Independence (No Conflict-of-Interest) _____
- Financial Stability _____
- On-site Inspection _____ x
- Staff Qualification Requirements _____
- Adequate Q.A. System _____
- Sample Control/Integrity Requirements _____
- Recordkeeping Requirements _____
- Test Report Content/Format Requirements _____
- Available Operational Manuals/Instructions _____
- Periodic Random Re-audit of Facilities _____
- Periodic Scheduled Re-audit of Facilities _____
- Participation in a Proficiency Testing Program _____ x
- Adequacy of Facilities and Equipment _____
- Equipment Maintenance/Calibration Requirements _____
- Other: _____

Other Information: Requirements are comparable to those contained in ASTM C1077, *Standard Practice for Laboratories Testing Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation*.

Accreditation Terminology:	None.
Compliance Conformance:	None.
Authority:	None.
Fees:	There is a fee to participate. A fee schedule may be obtained from CCRL.
Accreditation Action Frequency:	None.
Assessors:	CCRL laboratory inspectors.
Proficiency Testing Program:	CCRL Proficiency Sample Program.
Appeal Procedure:	None.
Publications:	NIST Letter Circular 1133.
Logo:	None, but acronym CCRL widely used.
No. of Labs:	Seven hundred (700) as of May 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic. *Laboratory Inspection Program available only in Mexico and Canada.
List/Directory of Accredited Labs:	List of concrete testing laboratories.
Int'l Recognition/Agreements:	None.
Other Recognition:	Broadly recognized through the United States.

Professional/Trade (PT) Organization: AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
 345 East 47th Street
 New York, NY 10017

Phone: 212-705-7822
Fax: 212-705-7674
Telex: 710-581-5267

Date Established: 1977.

Scope: Implements the activities pertaining to the American Society of Mechanical Engineers Safety and Pollution Prevention Equipment (ASME SPPE) Accreditation Program for products used in offshore oil and gas operations, using the American National Standards Institute (ANSI/ASME SPPE-2), *Standard for Testing Laboratory Accreditation.*

Fields of Testing: Biological, chemical, electrical, mechanical, metrology, and thermal.

Products Tested: Surface underwater and subsurface safety valves and related components and equipment.

Standards/Test Methods: Currently API Spec. 14A, Specification for Subsurface Safety Valves; and API Spec 14D, Specification for Wellhead Surface Safety Valves for Offshore Service. May later include sensors (pressure, level, temperature), detectors (gas, flame, H₂S), valves (emergency shutdown, relief, flow safety, shutdown, blowdown), blowout prevents, drill-string-safety valves, kelly cocks, degassers, mud-pit-level indicators, mud-return indicators, with appropriate specifications and standards.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	_____
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	x
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information:	Requirements are comparable to those contained in ASTM E548-84, <i>Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies</i> .
Accreditation Terminology:	Accepted Authorized Testing Laboratories.
Compliance Conformance:	Voluntary.
Authority:	Constitution, Bylaws and Rules of the American Society of Mechanical Engineers (ASME) and procedures of the ASME Committee for Safety and Pollution Prevention Equipment, oversight by the ASME Board of Safety Codes and Standards (BSCS).
Fees:	All expenses, fees and administrative charges related to the assessment. Because of variables involved in each assessment, it is impossible to project charges.
Accreditation Action Frequency:	Initial, periodic, unannounced audit and re-examinations; three (3) year cycle for audits.
Assessors:	Technically qualified team of staff and consultants specialist to ASME.
Proficiency Testing Program:	None.
Appeal Procedure:	Due process appeals incorporated in referenced program details.
Publications:	Accreditation Procedures, <i>The American Society of Mechanical Engineers Committee for Safety and Pollution Prevention Equipment Used in Offshore Oil and Gas Operations</i> , ANSI/ASME SPPE-2.
Logo:	None.
No. of Labs:	Nine (9) as of January 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	<i>ASME Accepted Authorized Testing Laboratories for Safety and Safety Relief Valves</i> .
Int'l Recognition/Agreements:	No formal agreements have been publicly announced.
Other Recognition:	System is recognized by the U.S. Department of Interior/Minerals Management Service and U.S. Coast Guard/Department of Transportation.

Professional/Trade (PT) Organization: AMERICAN WOOD PRESERVERS BUREAU (AWPB)
P.O. Box 5283
Springfield, VA 22150

Phone: 703-339-6660
Fax: 703-339-6711

Date Established: 1971.

Scope: Evaluation and accreditation of wood preservation testing/inspection agencies with on-going quality control of that portion of the product that will carry AWPB - quality certification mark.

Fields of Testing: Chemical, construction materials, and mechanical.

Products Tested: Pressure preserved lumber, pressure preserved plywood, pressure preserved pilings.

Standards/Test Methods: American Wood Preservers Association (AWPA) standards, referenced test methods of such voluntary consensus development societies as American Society for Testing and Materials (ASTM), with additional quality control methods and sampling plans of the AWPA.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	x
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	x
Periodic Scheduled Re-audit of Facilities	_____
Participation in a Proficiency Testing Program	x
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

Accreditation Terminology: Certified Inspection Agency.

Compliance Conformance:	Voluntary as to AWPB program, but mandatory for Housing and Urban Development (HUD) acceptance.
Authority:	Bylaws of the AWPB.
Fees:	Accredited laboratories pay the actual costs of accreditation. No advance estimates of individual organizational costs provided.
Accreditation Action Frequency:	The use of samples and the continuing review of preserver locations provide an ongoing accreditation method.
Assessors:	Assessors are staff personnel of AWPB experienced in the testing/inspection of wood preservation organizations and averaging 15 years of field experience.
Proficiency Testing Program:	The required use of the AWPB laboratory for x-ray spectroscopy quality proof testing is similar to an ongoing proficiency requirement.
Appeal Procedure:	Through administration to AWPB Board.
Publications:	Program description, Certification Program Directory.
Logo:	None.
No. of Labs:	Twelve (12) as of June 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	AWPB <i>Qualified Treating Plants Directory</i> includes accredited inspection agency list.
Int'l Recognition/Agreements:	U.S. accredited inspection agencies; also serves wood preserver plants in Canada.
Other Recognition:	Recognized by the Department of Housing and Urban Development (HUD), Naval Facilities Command, and many state and local government agencies.

**Professional/Trade
(PT) Organization:**

ASSOCIATED LABORATORIES, INC. (ALI)
P.O. Box 15705
1323 Wall Street
Dallas, TX 75215

Phone:

214-565-0593

Fax:

214-565-1094

Date Established:

1966.

Scope:

Accreditation of manufacturers' laboratories for quality control testing and accreditation of commercial laboratories to conduct required initial and periodic testing as part of ALI-sponsored, administered or operated third party certification programs.

Fields of Testing:

Chemical and construction materials.

Products Tested:

Aluminum, woods, vinyl windows and doors, insulated glass and carpet.

**Standards/Test
Methods:**

Uses AAMA/ANSI, ANSI, ASTM, NWMA/ANSI, ASTM and HUD standards test methods and specifications, as well as any others referenced in these documents.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	x
Financial Stability	_____
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	x
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

**Accreditation
Terminology:**

Accredited Laboratories.

Compliance Conformance:	Voluntary.
Authority:	Bylaws and procedures of each specific certification program.
Fees:	No fees for participating laboratories.
Accreditation Action Frequency:	Renewals are made in accordance with program procedures from annual to biennial cycles.
Assessors:	Qualified staff of Associated Laboratories.
Proficiency Testing Program:	None. However, appropriate round-robin procedures may be employed for commercial laboratories.
Appeal Procedure:	Appeals are made per procedures contained in each program and ANSI Certification Program Accreditation Appeal System.
Publications:	Documentation available on each certification program.
Logo:	None.
No. of Labs:	Eighteen (18) as of June 1991.
Availability of Accreditation:	Open to all U.S. testing laboratories and foreign private laboratories.
List/Directory of Accredited Labs:	Laboratory lists contained in each certification program directory.
Int'l Recognition/Agreements:	None.
Other Recognition:	Certification Programs are recognized by HUD.

**Professional/Trade
(PT) Organization:**

ASSOCIATION OF AMERICAN RAILROADS (AAR)
50 F Street, N.W.
Washington, DC 20001

**Phone:
Fax:**

202-639-2100
202-639-5546

Date Established:

1934 Merger.

Scope:

The evaluation and acceptance of laboratories that may test compliance of various mechanical devices, components and parts covered (i.e., running boards, air brake control valves, cylinders and yokes, etc.) under the product certification activity of the Association of American Railroads.

Fields of Testing:

Acoustic/vibration measurement, chemical, mechanical, nondestructive.

Products Tested:

Cast, forged, welded or pressed metal components, safety equipment, lighting.

**Standards/Test
Methods:**

Standards of the AAR, including referenced standards, test and inspection methods and related procedures.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	_____
On-site Inspection	_____
Staff Qualification Requirements	_____
Adequate Q.A. System	_____
Sample Control/Integrity Requirements	_____
Recordkeeping Requirements	_____
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	_____
Periodic Scheduled Re-audit of Facilities	_____
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

**Accreditation
Terminology:**

Acceptable Testing Laboratories.

**Compliance
Conformance:**

Voluntary.

Authority:	AAR product certification programs.
Fees:	None.
Accreditation Action Frequency:	Accreditation is reviewed based on results of each compliance report.
Assessors:	Professional staff of AAR.
Proficiency Testing Program:	None.
Appeal Procedure:	Appeals may be made to the product certification program executive board.
Publications:	Standards, Certification Program Procedures, and Directory.
Logo:	None.
No. of Labs:	Approximately forty (40) as of June 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	<i>Product Certification Directory</i> only.
Int'l Recognition/ Agreements:	None.
Other Recognition:	Recognized by Department of Transportation's Federal Railroad Administration.

**Professional/Trade
(PT) Organization:**

**BOARD OF ACCREDITATION OF CONCRETE TESTING
LABORATORIES, INC. (BACTL) OF NORTH CAROLINA**
c/o Westinghouse Environmental Geotechnical Company
3109 Spring Forest Road
Raleigh, NC 27604

**Phone:
Fax:**

919-872-2660

Date Established:

1977.

Scope:

To accredit concrete testing laboratories that meet the requirements of the Board in any one of three levels and to further upgrade the professional approach to testing of concrete.

Fields of Testing:

Chemical, construction materials, mechanical.

Products Tested:

Cement and concrete building constructions and products, including foundations.

**Standards/Test
Methods:**

The standards adopted by BACTL; other referenced standards, test procedures, and specifications, primarily those of ASTM.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u> x </u>
Independence (No Conflict-of-Interest)	<u> x </u>
Financial Stability	<u> </u>
On-site Inspection	<u> x </u>
Staff Qualification Requirements	<u> x </u>
Adequate Q.A. System	<u> x </u>
Sample Control/Integrity Requirements	<u> x </u>
Recordkeeping Requirements	<u> x </u>
Test Report Content/Format Requirements	<u> x </u>
Available Operational Manuals/Instructions	<u> x </u>
Periodic Random Re-audit of Facilities	<u> </u>
Periodic Scheduled Re-audit of Facilities	<u> </u>
Participation in a Proficiency Testing Program	<u> x </u>
Adequacy of Facilities and Equipment	<u> x </u>
Equipment Maintenance/Calibration Requirements	<u> x </u>
Other:	<u> </u>

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

**Accreditation
Terminology**

Accredited Concrete Testing Laboratories.

Compliance Conformance:	Voluntary.
Authority:	BACTL Bylaws and program procedures.
Fees:	There is a fee to participate. Fees are set by BACTL.
Accreditation Action Frequency:	Annual information review.
Assessors:	ASTM, NIST/CCRL, and BACTL committee members.
Proficiency Testing Program:	Participation in ASTM and NIST/CCRL program employed.
Appeal Procedure:	Procedures of BACTL.
Publications:	Annual Report providing the list of accredited laboratories.
Logo:	BACTL Acronym is used to identify participants.
No. of Labs:	Eighteen (18) as of June 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	Annual Report providing the list of accredited laboratories.
Int'l Recognition/Agreements:	None.
Other Recognition:	Recognized in North Carolina on state, local and municipal levels.

**Professional/Trade
(PT) Organization:**

**BUILDING OFFICIALS & CODE ADMINISTRATIONS (BOCA)
INTERNATIONAL**
4051 W. Flossmoor Road
Country Club Hills, IL 60478

**Phone:
Fax:**

312-799-2300

Date Established:

1978.

Scope:

To provide a list of testing laboratories which have been investigated and found to have the necessary equipment and personnel to perform testing in accordance with the applicable standards listed in the BOCA Basic Codes.

Fields of Testing:

Chemical, construction materials, electrical, mechanical, nondestructive, and thermal.

Products Tested:

Over 480 products, including: adhesives; air supported structures; automatic sliding doors; building system design; damper and door equipment and devices; decking - floor and roof; ducts; elevator doors and entrances; exterior doorways; exterior finishes; chimneys and fireplaces; factory-built houses; fasteners and fastening devices; fire communication systems; fire detection systems; fire doors; fire-resistive materials and systems; fire retardant treatment of lumber; foundation systems; gas logs; glass; HVAC systems and equipment; insulation; interior finishes; joists and beams - steel and wood; lumber grading; masonry and mortar - concrete; metal buildings and systems; plastics; plumbing materials, devices and systems; plumbing fixtures; roofing systems; sandwich panels (composite panels); sheathing systems; skylights; smoke and heat venting systems; swimming pools; columns - steel and wood; truss systems; unvented heating appliances; waterproofing membranes; and manufactured homes.

**Standards/Test
Methods:**

The applicable codes and standards within the BOCA Basic Codes, which apply to testing and/or inspection form the basis for accreditation (listing). Many of the referenced standards are voluntary consensus documents, i.e., National Electrical Code promulgated by the National Fire Protection Association (NFPA).

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u>X</u>
Independence (No Conflict-of-Interest)	<u>X</u>
Financial Stability	<u>X</u>
On-site Inspection	<u>X</u>
Staff Qualification Requirements	<u>X</u>
Adequate Q.A. System	<u>X</u>
Sample Control/Integrity Requirements	<u>X</u>
Recordkeeping Requirements	<u>X</u>
Test Report Content/Format Requirements	<u>X</u>
Available Operational Manuals/Instructions	<u>X</u>
Periodic Random Re-audit of Facilities	<u>X</u>

Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	x
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	

Other Information:	Requirements are comparable to those contained in ASTM E548-84, <i>Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.</i>
Accreditation Terminology	Listed Testing Laboratories.
Compliance Conformance:	Voluntary, until adopted by authority having jurisdiction.
Authority:	BOCA International Inc. bylaws.
Fees:	Fees are in accordance with the current <i>BOCA Evaluation Procedures Manual</i> and are intended to assure a self-sustaining program.
Accreditation Action Frequency:	Biennially, or sooner if code changes affect accreditation.
Assessors:	Professional staff - registered architects and engineers.
Proficiency Testing Program:	None.
Appeal Procedure:	There is a specified appeals procedure outlined in the listing procedures.
Publications:	Program Procedures, Fee Schedule, and Quarterly Directory of Products and Services.
Logo:	None.
No. of Labs:	Approximately twenty-five (25) as of May 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	<i>Directory of Reports on Products and Services.</i>
Int'l Recognition/Agreements:	None.
Other Recognition:	Many of the state and local governments adopt the BOCA International Building Code list of testing laboratories.

**Professional/Trade
(PT) Organization:**

**CELLULOSE INDUSTRY STANDARDS ENFORCEMENT
PROGRAM (CISEP)**
1315 Talbot Tower
Dayton, OH 45402

Phone: 513-222-1024
Fax: 513-222-5749

Date Established: 1983.

Scope: Document continuing compliance by participating manufacturers with American Society for Testing and Materials (ASTM) C-739 and Federal Trade Commission (FTC) R-value rule (16 CFR Part 460).

Fields of Testing: Construction materials.

Products Tested: Loose-fill cellulose building thermal insulation.

Standards/Test Methods: American Society for Testing and Materials (C-739); and Consumer Products Safety Commission (16 CFR Part 1209).

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u> x </u>
Independence (No Conflict-of-Interest)	<u> x </u>
Financial Stability	<u> </u>
On-site Inspection	<u> x </u>
Staff Qualification Requirements	<u> x </u>
Adequate Q.A. System	<u> x </u>
Sample Control/Integrity Requirements	<u> x </u>
Recordkeeping Requirements	<u> x </u>
Test Report Content/Format Requirements	<u> x </u>
Available Operational Manuals/Instructions	<u> x </u>
Periodic Random Re-audit of Facilities	<u> x </u>
Periodic Scheduled Re-audit of Facilities	<u> x </u>
Participation in a Proficiency Testing Program	<u> x </u>
Adequacy of Facilities and Equipment	<u> x </u>
Equipment Maintenance/Calibration Requirements	<u> x </u>
Other: Laboratory must be NVLAP Accredited	<u> x </u>

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

Accreditation Terminology: Designated Independent Laboratory.

Compliance Conformance: Mandatory National Voluntary Laboratory Accreditation Program (NVLAP/NIST) certification for all ASTM C-739 procedures.

Authority:	CISEP Bylaws. CISEP Code of Regulations.
Fees:	None.
Accreditation Action Frequency:	Accreditation remains effective until revoked by the CISEP Board of Directors.
Assessors:	NVLAP and CISEP Board of Directors assess the laboratories.
Proficiency Testing Program:	Monthly sample acquisition and testing is part of CISEP monitoring.
Appeal Procedure:	No formal appeal procedure.
Publications:	<i>Cellulose Industry Standards Enforcement Program - Code of Regulations</i> , April 1988.
Logo:	None.
No. of Labs:	One (1) as of June 1991.
Availability of Accreditation:	Single designated laboratory.
List/Directory of Accredited Labs:	None.
Int'l Recognition/ Agreements:	None.
Other Recognition:	At present CISEP uses a single designated laboratory - Underwriters Laboratories.

**Professional/Trade
(PT) Organization:**

**COLLEGE OF AMERICAN PATHOLOGISTS (CAP)
LABORATORY ACCREDITATION PROGRAM**
325 Waukegan Road
Northfield, IL 60093-2750

**Phone:
Fax:**

708-446-8800
708-446-8807

Date Established:

1962.

Scope:

Inspects and accredits hospital and independent medical laboratories through its commission on laboratory accreditation. Through its proficiency testing sample program, monitors continuing performance of its accredited participants.

Fields of Testing:

Biological, chemical, and metrology.

Products Tested:

Medicines (Human).

**Standards/Test
Methods:**

The College of American Pathologists' Standards for Accreditation of Medical Laboratories, including detailed checklist.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u> x </u>
Independence (No Conflict-of-Interest)	<u> x </u>
Financial Stability	<u> x </u>
On-site Inspection	<u> x </u>
Staff Qualification Requirements	<u> x </u>
Adequate Q.A. System	<u> x </u>
Sample Control/Integrity Requirements	<u> x </u>
Recordkeeping Requirements	<u> x </u>
Test Report Content/Format Requirements	<u> x </u>
Available Operational Manuals/Instructions	<u> x </u>
Periodic Random Re-audit of Facilities	<u> </u>
Periodic Scheduled Re-audit of Facilities	<u> x </u>
Participation in a Proficiency Testing Program	<u> x </u>
Adequacy of Facilities and Equipment	<u> x </u>
Equipment Maintenance/Calibration Requirements	<u> x </u>
Other:	<u> </u>

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

**Accreditation
Terminology**

Accredited Laboratories.

Compliance Conformance:	The program is a voluntary educational peer review program. Accreditation by the College is accepted in lieu of federal licensure for compliance with the Clinical Laboratory Improvement Act of 1967, Joint Commission on Accreditation of Hospitals (JCAH) inspection of the laboratory, and inspection to maintain state licensure in some states. While not mandatory for operation, many of these approvals are necessary for laboratories seeking federal payments for services rendered under federal programs.
Authority:	College of American Pathologists' Board of Governors.
Fees:	Fees are per test category. Most participants request 5-8 test categories.
Accreditation Action Frequency:	Biennial on-site inspection with mandatory interim year self-inspection and continued proficiency testing enrollment required.
Assessors:	Team of assessors is always led by a pathologist with appropriate support personnel of his choosing.
Proficiency Testing Program:	An essential element of the program; participation is mandatory.
Appeal Procedure:	Appeal is through Commission on Laboratory Accreditation.
Publications:	<i>Standards for Accreditation of Medical Laboratories</i> ; Inspection Checklists; also various guidelines on quality control, safety, and personnel.
Logo:	CAP logo is used to identify the origin of CAP services. Common law restrictions.
No. of Labs:	More than three thousand (3,000) as of August 1991.
Availability of Accreditation:	Accreditation available to all labs, foreign and domestic.
List/Directory of Accredited Labs:	<i>Directory of Accredited Laboratories.</i>
Int'l Recognition/Agreements:	Some Canadian and U.S. Territory participation.
Other Recognition:	None.

**Professional/Trade
(PT) Organization:**

**CORPORATION FOR OPEN SYSTEMS INTERNATIONAL (COS)
TEST LABORATORY ACCREDITATION FOR COS
MARK PROGRAM**
1750 Old Meadow Road, Suite 400
McLean, VA 22102-4306

Phone: 703-883-2873
Fax: 703-848-4572

Date Established: 1988.

Scope: Accreditation of First Party Test Centers for conformance testing of computer and communications interoperability products that meet COS requirements for COS Mark Program of product certification.

Fields of Testing: Electrical, mechanical, and ionizing radiation.

Products Tested: Open Systems Interconnection (OSI) products.

Standards/Test Methods: The Government Open Systems Interconnection Protocol (GOSIP), and COS Profile Specifications and other requirements as appropriate.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u> x </u>
Independence (No Conflict-of-Interest)	<u> x </u>
Financial Stability	<u> x </u>
On-site Inspection	<u> x </u>
Staff Qualification Requirements	<u> x </u>
Adequate Q.A. System	<u> x </u>
Sample Control/Integrity Requirements	<u> </u>
Recordkeeping Requirements	<u> x </u>
Test Report Content/Format Requirements	<u> x </u>
Available Operational Manuals/Instructions	<u> x </u>
Periodic Random Re-audit of Facilities	<u> x </u>
Periodic Scheduled Re-audit of Facilities	<u> x </u>
Participation in a Proficiency Testing Program	<u> </u>
Adequacy of Facilities and Equipment	<u> x </u>
Equipment Maintenance/Calibration Requirements	<u> x </u>
Other:	<u> </u>

Other Information: System requirements are comparable to those of the National Measurement Accreditation Service (NAMAS) of the United Kingdom, and the Open Systems Testing Consortium (OSTS).

Accreditation Terminology: Accredited First Party Test Center.

Compliance Conformance: Voluntary.

Authority:	Bylaws of COS.
Fees:	There is a schedule of required fees.
Accreditation Action Frequency:	
Assessors:	COS test specialists team.
Proficiency Testing Program:	None.
Appeal Procedure:	Special appeals mechanisms are in place through the COS-NVLAP Accredited Test Center.
Publications:	Full descriptive information available on COS and the COS Marks Program.
Logo:	Accredited Centers may use COS Mark Logo.
No. of Labs:	One (1) as of June 1991.
Availability of Accreditation:	Accreditation available to all labs, foreign and domestic. Foreign laboratories must provide mutual recognition.
List/Directory of Accredited Labs:	Laboratories are listed with <i>COS Mark Program Directory</i> .
Int'l Recognition/ Agreements:	Recognition of laboratories through cooperating NVLAP accreditation.
Other Recognition:	None.

**Professional/Trade
(PT) Organization:**

**COUNCIL OF AMERICAN BUILDING OFFICIALS/NATIONAL
EVALUATION SERVICE (CABO/NES)**
5203 Leesburg Pike, Suite 708
Falls Church, VA 22041

**Phone:
Fax:**

703-931-4533
703-379-1546

Date Established:

1975.

Scope:

Evaluates, for listing purposes, testing facilities to ascertain whether they have necessary personnel and equipment to perform tests in accordance with applicable standards contained in the model building codes.

Fields of Testing:

Chemical, construction materials, electrical, mechanical, nondestructive, and thermal.

Products Tested:

Any product related to the construction industry, with primary emphasis on those products and systems used in the design and construction and buildings under Building Officials and Code Administrators International (BOCA), International Conference of Building Officials (ICBO), and Southern Building Code Congress International, Inc., (SBCCI) Codes.

**Standards/Test
Methods:**

The standards are nationally recognized consensus standards listed in the *Standard Codes*, published by the SBCCI.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u> x </u>
Independence (No Conflict-of-Interest)	<u> x </u>
Financial Stability	<u> x </u>
On-site Inspection	<u> x </u>
Staff Qualification Requirements	<u> x </u>
Adequate Q.A. System	<u> x </u>
Sample Control/Integrity Requirements	<u> x </u>
Recordkeeping Requirements	<u> x </u>
Test Report Content/Format Requirements	<u> x </u>
Available Operational Manuals/Instructions	<u> x </u>
Periodic Random Re-audit of Facilities	<u> x </u>
Periodic Scheduled Re-audit of Facilities	<u> x </u>
Participation in a Proficiency Testing Program	<u> </u>
Adequacy of Facilities and Equipment	<u> x </u>
Equipment Maintenance/Calibration Requirements	<u> x </u>
Other:	<u> </u>

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies*.

Accreditation Terminology	Acceptable (listed) laboratories.
Compliance Conformance:	Voluntary, unless adopted by the authority having jurisdiction.
Authority:	National Research Board Procedures (NRB).
Fees:	There is a fee to participate which is set by the NRB and is available from the NRB.
Accreditation Action Frequency:	Annually.
Assessors:	Professional staff assigned by Secretariat - architects and engineers.
Proficiency Testing Program:	None.
Appeal Procedure:	Procedures comparable to Model Code programs are in effect.
Publications:	<i>Building Codes - Application Information Directory of Products and Services</i> . Reports on Alternate Materials, Products and Methods of Construction.
Logo:	CABO.
No. of Labs:	Approximately ten (10) as of January 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	List of Products and Services.
Int'l Recognition/Agreements:	None.
Other Recognition:	More than 2300 state and local governments located in the southwest, south, southeast, and Atlantic seaboard recognize the program through the use of BOCA, ICBO, and SBCCI Codes.

**Professional/Trade
(PT) Organization:**

**ETL TESTING LABORATORIES, INC. (ETL)
LABORATORY APPROVAL PROGRAMS FOR
CERTIFICATION PROGRAM TESTING**
Industrial Park, Route 11
Cortland, New York 13045

Phone:

607-253-6711

Fax:

607-756-9891

Date Established:

1980.

Scope:

Accreditation of commercial and participating manufacturer laboratories for initial conformance and/or quality control verification testing functions in certification programs.

Fields of Testing:

Mechanical and Thermal.

Products Tested:

Glass and glass products, building assemblies including windows and doors, airport lighting equipment and devices.

**Standards/Test
Methods:**

ASTM, ANSI, federal regulations promulgated by the Department of Housing and Urban Development and the Federal Aviation Administration, SAE, other national and international standards and test methods referenced in Certification Procedural Manuals.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	x
Financial Stability	x
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	x
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	x
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	x

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

**Accreditation
Terminology**

Approved Testing Laboratories.

Compliance Conformance:	Voluntary.
Authority:	Bylaws of ETL and specific program procedural manuals.
Fees:	None.
Accreditation Action Frequency:	Frequency varies by program procedures from 1 to 5 years, with monitoring of test reports as interim audits.
Assessors:	Experienced and trained technical staff of ETL.
Proficiency Testing Program:	None.
Appeal Procedure:	Each program for which accreditation (approval) is offered has specific appeal procedures.
Publications:	General information brochures and specific program guides and certified product directories.
Logo:	None for laboratory use.
No. of Labs:	Approximately fifteen (15) as of August 1991.
Availability of Accreditation:	Accreditation available to all labs, foreign and domestic.
List/Directory of Accredited Labs:	Laboratories approved for testing are identified in specific certification program product directories.
Int'l Recognition/Agreements:	None.
Other Recognition:	None.

**Professional/Trade
(PT) Organization:**

INSULATING GLASS CERTIFICATION COUNCIL (IGCC)
 ETL Testing Laboratories, Inc.
 P.O. Box 2040
 Industrial Park, 3933 U.S. Route 11
 Cortland, NY 13045-0950

Phone: 607-753-6711
Fax: 607-756-9891

Date Established: 1977

Scope: IGCC approves testing laboratories which provide necessary test services in connection with certification program of insulating glass units.

Fields of Testing: Chemical and mechanical.

Products Tested: Glass and glass products.

Standards/Test Methods: ASTM E744-88, *Standard Specification for Sealed Insulating Glass*. ASTM E773-88, *Standard Test Method for Testing Seal Durability of Sealed Insulating Glass Units*. ASTM E546-75, *Standard Test Method for Frost Point of Sealed Insulating Glass Units*.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u> x </u>
Independence (No Conflict-of-Interest)	<u> x </u>
Financial Stability	<u> </u>
On-site Inspection	<u> x </u>
Staff Qualification Requirements	<u> x </u>
Adequate Q.A. System	<u> x </u>
Sample Control/Integrity Requirements	<u> x </u>
Recordkeeping Requirements	<u> x </u>
Test Report Content/Format Requirements	<u> x </u>
Available Operational Manuals/Instructions	<u> x </u>
Periodic Random Re-audit of Facilities	<u> </u>
Periodic Scheduled Re-audit of Facilities	<u> x </u>
Participation in a Proficiency Testing Program	<u> </u>
Adequacy of Facilities and Equipment	<u> x </u>
Equipment Maintenance/Calibration Requirements	<u> x </u>
Other:	<u> </u>

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies*.

Accreditation Terminology Approved Testing Laboratories.

Compliance Conformance:	Voluntary as to testing laboratories.
Authority:	Basic to the bylaws which established the Insulating Glass Certification Council and administrative actions.
Fees:	Laboratories pay only the cost of the initial inspection of the laboratory facilities. Representative attendance at an annual workshop is required. Periodic inspections of the laboratory are at no cost to the laboratory, but are included as an administrative cost paid by the licensees.
Accreditation Action Frequency:	After the initial survey, annual surveys are conducted.
Assessors:	The Administrative Manager or his delegate handle all the laboratory surveys.
Proficiency Testing Program:	None.
Appeal Procedure:	Appeals of any nature are referred to the Chairman of the Certification Committee or to a meeting of the Certification Committee.
Publications:	A listing of IGCC approved laboratories is published as a part of the IGCC Certified Products Directory (February 1 and August 1).
Logo:	No logo is involved for approved laboratories; however, the product certification employs an IGCC number for identification of certified product. IGCC is a federally registered certification mark.
No. of Labs:	Six (6) as of February 1991.
Availability of Accreditation:	Accreditation available to all U.S. Testing laboratories.
List/Directory of Accredited Labs:	List of Approved Laboratories incorporated in Certified Product Directory.
Int'l Recognition/Agreements:	None.
Other Recognition:	None.

**Professional/Trade
(PT) Organization:**

**INTERNATIONAL ASSOCIATION OF PLUMBING
AND MECHANICAL OFFICIALS (IAPMO)**
20001 S. Walnut Drive
Walnut, CA 91789-2825

**Phone:
Fax:**

714-595-8449
714-594-3690

Date Established:

1970.

Scope:

The determination of laboratories that may test to demonstrate compliance of plumbing and solar energy systems components covered under the product certification activity of the International Association of Plumbing and Mechanical Officials (IAPMO).

Fields of Testing:

Chemical, construction materials, mechanical, and thermal.

Products Tested:

Particular categories of plumbing, solar, swimming pool, spa and hot tub, and mobile home and recreational vehicle products.

**Standards/Test
Methods:**

IAPMO Code and applicable national standards.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u> X </u>
Independence (No Conflict-of-Interest)	<u> X </u>
Financial Stability	<u> X </u>
On-site Inspection	<u> X </u>
Staff Qualification Requirements	<u> X </u>
Adequate Q.A. System	<u> X </u>
Sample Control/Integrity Requirements	<u> X </u>
Recordkeeping Requirements	<u> X </u>
Test Report Content/Format Requirements	<u> X </u>
Available Operational Manuals/Instructions	<u> X </u>
Periodic Random Re-audit of Facilities	<u> </u>
Periodic Scheduled Re-audit of Facilities	<u> X </u>
Participation in a Proficiency Testing Program	<u> </u>
Adequacy of Facilities and Equipment	<u> X </u>
Equipment Maintenance/Calibration Requirements	<u> X </u>
Other:	<u> </u>

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

**Accreditation
Terminology**

Listed (Acceptable) Testing Laboratories.

Compliance Conformance:	Voluntary, unless adopted by the authority having jurisdiction.
Authority:	Bylaws of IAPMO.
Fees:	A fee schedule is available from IAPMO.
Accreditation Action Frequency:	Accreditation is reissued annually with site reassessment as judged necessary by IAPMO.
Assessors:	Assessments are performed by IAPMO's Research Committee comprised of persons selected from IAPMO's active members.
Proficiency Testing Program:	None.
Appeal Procedure:	Appeals procedure follows terms of Laboratory Testing Contract.
Publications:	IAPMO Code, <i>Application Information - Certified Product and Services Information</i> .
Logo:	None.
No. of Labs:	Approximately thirty-five (35) as of January 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	<i>List of Acceptable Testing Laboratories by State.</i>
Int'l Recognition/Agreements:	None.
Other Recognition:	Recognized by state and local government authorities that employ recognized IAPMO Plumbing Code.

**Professional/Trade
(PT) Organization:**

INTERNATIONAL CONFERENCE OF BUILDING
OFFICIALS (ICBO)
5360 South Workman Mill Road
Whittier, CA 90601

**Phone:
Fax:**

213-699-0543, 4 or 5

Date Established:

1975.

Scope:

To provide members and others with model building codes, a list of products that comply with these codes, referenced standards, and a list of laboratories whose task reports have been found to meet the Code and standard requirements.

Fields of Testing:

Chemical, construction materials, electrical, mechanical, nondestructive, and thermal.

Products Tested:

Any product related to the construction industry; with primary emphasis on those products and systems used in the design and construction of buildings.

**Standards/Test
Methods:**

The standards are nationally recognized consensus standards listed in the *Standard Codes*, published by ICBO.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	x
Financial Stability	x
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	x
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	x
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	x

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies*.

**Accreditation
Terminology**

Listed Testing Laboratory.

Compliance Conformance:	Voluntary, until adopted by the authority having jurisdiction.
Authority:	Bylaws of ICBO Evaluation Service, Inc.
Fees:	A fee schedule is available from ICBO Evaluation Service, Inc.
Accreditation Action Frequency:	Accreditation is reissued annually.
Assessors:	The professional staff of ICBO and the building officials themselves constitute an assessor system.
Proficiency Testing Program:	None.
Appeal Procedure:	Special provisions are outlined in <i>ICBO Evaluation Service, Inc. Rules and Procedures</i> .
Publications:	Rules and procedures, fee schedules, and building codes.
Logo:	None.
No. of Labs:	Approximately fifteen (15) as of January 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	Publishes <i>Directory of Products and Services</i> .
Int'l Recognition/Agreements:	None.
Other Recognition:	More than 2300 state and local governments located in the southwest, south, southeast, and Atlantic seaboard recognize the program through use of the Code.

Professional/Trade (PT) Organization:

**INTERNATIONAL ELECTROTECHNICAL COMMISSION
QUALITY ASSESSMENT SYSTEM FOR ELECTRONIC
COMPONENTS (IECQ)**

Electronic Components Certification Board
U.S. National Authorized Institution – Approved Testing
Organization Program
2001 Eye Street, N.W.
Washington, DC 20006

Phone: 202-457-4962
Fax: 202-457-4985
Telex: 710-822-0148

Date Established: 1977, implemented 1982.

Scope: Accreditation of independent and manufacturer testing facilities capable of demonstrating compliance of electronic components to the prevailing manufacturer specifications and international standards.

Fields of Testing: Acoustic/vibration measurement, electrical testing, mechanical testing, metrology, and thermal testing.

Products Tested: Electronic components, equipment, supplies and appliances.

Standards/Test Methods: Standards and specifications for use under the system consist of five levels: Basic, Generic, Sectional, Detail, and Blank Detail specifications.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	x
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	_____
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

Accreditation Terminology	Approved Testing Organizations.
Compliance Conformance:	Voluntary.
Authority:	Electronic Components Certification Board (ECCB).
Fees:	There are fees to participate. The fees are set by the ECCB and used by UL.
Accreditation Action Frequency:	On-site reassessment is on an annual basis.
Assessors:	Staff of the National Supervisory Inspectorate (NSI) which is Underwriters Laboratories.
Proficiency Testing Program:	None.
Appeal Procedure:	Detailed in the program.
Publications:	System description, application forms, etc.
Logo:	None.
No. of Labs:	Five (5) as of August 1991.
Availability of Accreditation:	Available to all U.S. testing laboratories.
List/Directory of Accredited Labs:	<i>The IEC Qualified Products List</i> includes number of approved national laboratories.
Int'l Recognition/Agreements:	The nature of the program, sponsored by IEC, is to encourage maximum international recognition.
Other Recognition:	None.

Professional/Trade (PT) Organization: KITCHEN CABINET MANUFACTURERS ASSOCIATION (KCMA)
1899 Preston White Drive
Reston, VA 22091-4326

Phone: 703-264-1690
Fax: 703-620-6530

Date Established: 1968.

Scope: Program approves laboratories that may be used by the manufacturers of certified products to demonstrate product conformance to the voluntary standards employed by the certification program, through the testing/inspection methods referenced.

Fields of Testing: Mechanical.

Products Tested: Kitchen cabinets, building assemblies.

Standards/Test Methods: American National Standards Institute (ANSI) standards for kitchen cabinets and all referenced standards and test methods.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u> x </u>
Independence (No Conflict-of-Interest)	<u> x </u>
Financial Stability	<u> </u>
On-site Inspection	<u> x </u>
Staff Qualification Requirements	<u> x </u>
Adequate Q.A. System	<u> x </u>
Sample Control/Integrity Requirements	<u> x </u>
Recordkeeping Requirements	<u> x </u>
Test Report Content/Format Requirements	<u> x </u>
Available Operational Manuals/Instructions	<u> x </u>
Periodic Random Re-audit of Facilities	<u> </u>
Periodic Scheduled Re-audit of Facilities	<u> x </u>
Participation in a Proficiency Testing Program	<u> </u>
Adequacy of Facilities and Equipment	<u> x </u>
Equipment Maintenance/Calibration Requirements	<u> x </u>
Other:	<u> </u>

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

Accreditation Terminology: Approved Laboratories.

Compliance Conformance: Voluntary.

Authority:	KCMA Certification Program.
Fees:	None.
Accreditation Action Frequency:	Laboratories are assessed biannually.
Assessors:	Qualified representative of KCMA.
Proficiency Testing Program:	None.
Appeal Procedure:	Appeals through certification administrative management to the Board of the Association as necessary.
Publications:	<i>Directory of Certified Products, The Certifier Newsletter, Certified Cabinet Dealers' Laboratory Manual.</i>
Logo:	None.
No. of Labs:	Seven (7) as of August 1991.
Availability of Accreditation:	Accreditation available to all U.S. testing laboratories.
List/Directory of Accredited Labs:	Approved laboratories listed in the <i>Certified Products Directory</i> .
Int'l Recognition/ Agreements:	None.
Other Recognition:	None.

**Professional/Trade
(PT) Organization:**

MET ELECTRICAL TESTING COMPANY INC. (MET)
Approval of Laboratories for use in MET Certification Programs
916 W. Patapsco Avenue
Baltimore, MD 21230

**Phone:
Fax:**

301-354-2200
301-354-1624

Date Established:

1975.

Scope:

Approval of independent laboratories as alternative sources of initial conformance data provided by OSHA's Recognized Nationally Recognized Testing Laboratory (NRTL) organizations and manufacturer laboratories providing participant testing data for quality assurance.

Fields of Testing:

Acoustic/vibration, chemical, construction, electrical, mechanical, metrology, and thermal.

Products Tested:

Electrical and electronic components and products, medical devices, computer and telecommunications components and products.

**Standards/Test
Methods:**

National and international performance and safety standards and test methods, federal specification and model codes.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u> x </u>
Independence (No Conflict-of-Interest)	<u> x </u>
Financial Stability	<u> x </u>
On-site Inspection	<u> x </u>
Staff Qualification Requirements	<u> x </u>
Adequate Q.A. System	<u> x </u>
Sample Control/Integrity Requirements	<u> x </u>
Recordkeeping Requirements	<u> x </u>
Test Report Content/Format Requirements	<u> x </u>
Available Operational Manuals/Instructions	<u> x </u>
Periodic Random Re-audit of Facilities	<u> </u>
Periodic Scheduled Re-audit of Facilities	<u> x </u>
Participation in a Proficiency Testing Program	<u> </u>
Adequacy of Facilities and Equipment	<u> x </u>
Equipment Maintenance/Calibration Requirements	<u> x </u>
Other:	<u> </u>

Other Information:

OSHA's Nationally Recognized Testing Laboratory (NRTL) status is automatic approval. Other requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

**Accreditation
Terminology**

Approved Testing Laboratories.

Compliance Conformance:	Voluntary.
Authority:	Bylaws of MET.
Fees:	There is a fee to participate which are set by MET.
Accreditation Action Frequency:	Annual review and appropriate verification of NRTL status.
Assessors:	OSHA for NRTL laboratories; staff of MET for other laboratories.
Proficiency Testing Program:	None.
Appeal Procedure:	Appeal process is spelled out in Certification Procedures and Federal Process for OSHA NRTL Laboratories.
Publications:	Approval documentation - <i>Certified Product Directories</i> .
Logo:	None.
No. of Labs:	Eight (8) as of August 1991.
Availability of Accreditation:	Accreditation available to all U.S. testing laboratories.
List/Directory of Accredited Labs:	<i>Approved Laboratories</i> listed by OSHA and in <i>MET Certified Product Directories</i> .
Int'l Recognition/Agreements:	Status recognized by state, local and municipal agencies.
Other Recognition:	None.

**Professional/Trade
(PT) Organization:**

MTL CERTIFICATION SERVICES CO., INC. (MTL)
1640 W. 32 Place
Hialeah, FL 33012

Phone:
Fax:

305-822-1141
None

Date Established:

1980.

Scope:

Accreditation of commercial testing laboratories that provide initial evidence of compliance through reports on tests conducted as a program requirement.

Fields of Testing:

Mechanical.

Products Tested:

Building assemblies.

**Standards/Test
Methods:**

AAMA/ANSI 302.9 and AAMA/ANSI 402.9 and referenced test methods such as those of the American Society for Testing and Materials (ASTM), and Aluminum Association (AA).

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u> x </u>
Independence (No Conflict-of-Interest)	<u> x </u>
Financial Stability	<u> x </u>
On-site Inspection	<u> x </u>
Staff Qualification Requirements	<u> x </u>
Adequate Q.A. System	<u> x </u>
Sample Control/Integrity Requirements	<u> x </u>
Recordkeeping Requirements	<u> x </u>
Test Report Content/Format Requirements	<u> x </u>
Available Operational Manuals/Instructions	<u> x </u>
Periodic Random Re-audit of Facilities	<u> </u>
Periodic Scheduled Re-audit of Facilities	<u> x </u>
Participation in a Proficiency Testing Program	<u> </u>
Adequacy of Facilities and Equipment	<u> x </u>
Equipment Maintenance/Calibration Requirements	<u> x </u>
Other:	<u> </u>

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

**Accreditation
Terminology**

Accredited Laboratories.

**Compliance
Conformance:**

Voluntary.

Authority:	MTL operates under the Architectural Aluminum Manufacturers Association (AAMA) Certification Program, accredited by the American National Standards Institute (ANSI). Program operates to the requirements of, and with the approval of, the U.S. Department of Housing and Urban Development (HUD).
Fees:	Laboratory applicants pay an initial charge consisting of per diem and travel expenses.
Accreditation Action Frequency:	On-site visits every two (2) years.
Assessors:	Experienced and trained staff of MTL performs assessments.
Proficiency Testing Program:	None.
Appeal Procedure:	Program procedures allow for appeals through MTL to AAMA and ANSI, with the ANSI procedures followed at all levels.
Publications:	Applications for laboratory approval, explanatory program information and a <i>Certified Directory of MTL and AAMA</i> , each of which carries a list of accredited Laboratories.
Logo:	None for accredited laboratory use.
No. of Labs:	Sixteen (16) as of August 1991.
Availability of Accreditation:	Accreditation available to all labs, foreign and domestic.
List/Directory of Accredited Labs:	<i>Accredited Laboratories List</i> included with <i>Product Certification Directory</i> .
Int'l Recognition/Agreements:	None.
Other Recognition:	None.

**Professional/Trade
(PT) Organization:**

**NATIONAL ASSOCIATION OF DENTAL
LABORATORIES (NADL)
NATIONAL BOARD FOR THE CERTIFICATION OF
DENTAL LABORATORIES (NBC)
Dental Laboratory Certification (Accreditation) Program
3801 Mt. Vernon Avenue
Alexandria, VA 22305**

Phone: 703-683-5263
Fax: 703-549-4788

Date Established: 1977.

Scope: The accreditation of laboratories that perform the preparation, quality production, and verification of synthetic clinical products for dentistry.

Fields of Testing: Biological and chemical.

Products Tested: Medical prosthetic materials, appliances, devices.

Standards/Test Methods: Minimum acceptable standards for personnel, equipment, health and safety aspects of the laboratories promulgated, accepted, and referenced in the program requirements and the personnel certification programs of the specific specialty for which accreditation is sought.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	_____
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	_____
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	x
Periodic Scheduled Re-audit of Facilities	_____
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies*. Each laboratory must have at least one full-time Certified Dental Technician (CDT).

Accreditation Terminology	Certified Dental Laboratory (CDL).
Compliance Conformance:	Voluntary.
Authority:	National Board for the Certification of Dental Laboratories.
Fees:	Fees for laboratories per schedule increased by the number of specialties for which accreditation is applied.
Accreditation Action Frequency:	Annual renewal with random on-site visits.
Assessors:	Technically qualified experienced members of the certifying board, its employees and designated agents conduct all assessments of the application and conduct all verification visits.
Proficiency Testing Program:	None.
Appeal Procedure:	Special committee appointment, hearing and other due process procedures.
Publications:	Program material, application forms, and directories.
Logo:	None.
No. of Labs:	Two hundred (200) as of August 1991.
Availability of Accreditation:	Available to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	<i>Certified Dental Laboratories Directory.</i>
Int'l Recognition/Agreements:	None.
Other Recognition:	None.

**Professional/Trade
(PT) Organization:**

**NATIONAL ASSOCIATION OF INDEPENDENT
LABORATORIES (NAIL)
FOR PROTECTIVE EQUIPMENT TESTING**
P.O. Box 1402
Burlington, NJ 08016

Phone: 609-387-3400
Fax: 609-386-8885

Date Established: 1981

Scope: Accreditation of independent laboratory members, and non-independent associate members of the National Association of Independent Laboratories for Rubber Goods Testing, Inc. for the purpose of testing rubber goods products.

Fields of Testing: Chemical, electrical, and mechanical.

Products Tested: Rubber and other protection safety devices, equipment and supplies.

Standards/Test Methods: Those standards and test methods for rubber goods testing promulgated or proposed for development by American Society for Testing and Materials (ASTM) Committee F.18 on Electrical Protection Equipment for Workers and referenced test methods and standards contained therein.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	x
Financial Stability	x
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	_____
Periodic Random Re-audit of Facilities	_____
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies*, and Guide 25, *ISO/IEC Certico*.

Accreditation Terminology	Accredited Laboratories.
Compliance Conformance:	Volunteer.
Authority:	Accreditation system is part of the bylaws of the National Association of Independent Laboratories (NAIL) for Protective Equipment Testing.
Fees:	Accreditation fee is fixed for association members with a larger fee charged to non-members to encourage regular or associate membership.
Accreditation Action Frequency:	Reports are monitored, accreditation meetings held in conjunction with association meetings. On-site review is repeated every 2 years with longer periods after first three (3) visits.
Assessors:	Individuals experienced in the testing requirements.
Proficiency Testing Program:	None.
Appeal Procedure:	Appeal procedure is spelled out in the Association bylaws and provides due process appeals structure.
Publications:	Program information and instructions; List of Accredited Laboratories.
Logo:	Logo NAIL for Protective Equipment Testing may be employed by accredited laboratories.
No. of Labs:	Fourteen (14) laboratories as of January 1991.
Availability of Accreditation:	Available to all U.S. testing laboratories.
List/Directory of Accredited Labs:	List of Accredited Laboratories.
Int'l Recognition/Agreements:	None.
Other Recognition:	None.

**Professional/Trade
(PT) Organization:**

NATIONAL BOARD OF BOILER AND
PRESSURE VESSEL INSPECTORS (NBBPVI)
AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
Boiler and Pressure Vessel Safety and Safety Relief Valve Program
1055 Crupper Avenue
Columbus, OH 43229

Phone: 614-888-8320
Fax: 614-847-1828

Date Established: Approximately 1950.

Scope: The laboratory acceptance program is a support program for the inspection report program for all boilers and pressure vessels that are constructed to the requirements of the ASME's Boiler and Pressure Vessel Code. Covers laboratories capable of certifying relief device capacities and performance.

Fields of Testing: Construction materials, mechanical, and thermal.

Products Tested: Boilers, pressure vessels, parts, safety valves, nuclear vessels, components, piping, pumps, line valves, nuclear safety valves.

Standards/Test Methods: Uses ASME Boiler and Pressure Vessel Code, ANSI, NRC standards and The National Board Inspection Codes and Guides.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	_____
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	x
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

Accreditation Terminology	Accredited Inspection Laboratory.
Compliance Conformance:	Manufacturer's certification is mandatory. Laboratory involvement is voluntary.
Authority:	Most states and many municipalities have adopted as a law the requirements of the ASME Boiler and Pressure Vessel Code. The laboratory program is a mandatory element for valve certification of capacity and performance.
Fees:	There is a fee to participate. NBBPVI sets the fees and a fee schedule is available from NBBPVI.
Accreditation Action Frequency:	Normally within a five (5) year cycle, but more often if deemed necessary.
Assessors:	National Board Inspectors (Professional Engineers) fully experienced and qualified in laboratory inspection procedures.
Proficiency Testing Program:	While none is formalized, the flow measurements standardization procedure can be considered a facility proficiency testing method.
Appeal Procedure:	Procedures of the Board and ASME.
Publications:	Pressure Relief Device Certification, NB-18 - lists the names of manufacturers and assemblers, the types of pressure relief devices and their relieving capacities, as certified by the National Board.
Logo:	The letters "NB" on a valve nameplate indicates that the capacity of the valve type or model has been certified by the National Board.
No. of Labs:	One (1) as of June 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	Under current arrangements, only NBBPVI laboratory is accredited.
Int'l Recognition/Agreements:	Recognized in many Canadian provinces.
Other Recognition:	Many state, local and municipal jurisdictions require registration by NBBPVI.

**Professional/Trade
(PT) Organization:**

**NATIONAL CERTIFIED TESTING
LABORATORIES, INC. (NCTL)**
Certification Programs for Laboratory Approval
Five Leigh Drive
York, PA 17402

Phone:

717-846-1200

Fax:

717-767-4100

Date Established:

1980.

Scope:

Accreditation of commercial testing laboratories that provide initial evidence of compliance through reports on tests conducted as a program requirement.

Fields of Testing:

Mechanical and thermal.

Products Tested:

Fenestration products, office furniture, paint and building assemblies.

**Standards/Test
Methods:**

ANSI/AAMA American Architectural Manufacturers' Association 101-88, 1102.7, and 1002.10 and referenced test methods such as those of the American Society for Testing and Materials (ASTM) and Aluminum Association (AA).

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	x
Financial Stability	x
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	x
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	x
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	x

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

**Accreditation
Terminology**

Approved Laboratories.

Compliance Conformance:	Voluntary.
Authority:	NCTL operates with approval of U.S. Department of Housing and Urban Development (HUD) and U.S. General Services Administration.
Fees:	Laboratory applicants pay an initial charge consisting of per diem plus travel expenses.
Accreditation Action Frequency:	An on-site assessment review is conducted every 2 years.
Assessors:	Experienced and trained staff of NCTL performs assessments.
Proficiency Testing Program:	None.
Appeal Procedure:	Program procedures allow for appeals through NCTL, with the ANSI procedures followed at all levels.
Publications:	Applications for laboratory approval, explanatory program information, and a <i>Certified Directory of NCTL and AAMA</i> . Each of which carries a list of accredited laboratories.
Logo:	None.
No. of Labs:	Sixteen (16) as of May 1991.
Availability of Accreditation:	Accreditation available to all U.S. testing laboratories.
List/Directory of Accredited Labs:	<i>Approved Laboratory List with Certified Product Directories.</i>
Int'l Recognition/Agreements:	None.
Other Recognition:	None.

Professional/Trade (PT) Organization: NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
 40 MET Electrical Testing Company
 916 W. Patapsco Avenue
 Baltimore, MD 21230

Phone: 301-354-2200
Fax: 301-354-1624

Date Established: 1973.

Scope: Accreditation through active membership of any firm, company or corporation in the electrical testing industry which meets specified qualifications. Qualifications are related to inspection and electrical product installation certification.

Fields of Testing: Construction materials and electrical.

Products Tested: Electrical machinery, equipment, supplies and appliances, miscellaneous machinery (engines, turbines), scientific, optical and professional instruments and supplies.

Standards/Test Methods: Controlling requirements are contained in *NETA Acceptance Testing Specifications* and referenced national voluntary consensus standards, as well as state and local codes and ordinances that apply.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	X
Independence (No Conflict-of-Interest)	_____
Financial Stability	X
On-site Inspection	X
Staff Qualification Requirements	X
Adequate Q.A. System	_____
Sample Control/Integrity Requirements	_____
Recordkeeping Requirements	X
Test Report Content/Format Requirements	X
Available Operational Manuals/Instructions	X
Periodic Random Re-audit of Facilities	_____
Periodic Scheduled Re-audit of Facilities	X
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	X
Equipment Maintenance/Calibration Requirements	X
Other:	_____

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

Accreditation Terminology Accredited Member Company.

Compliance Conformance:	Voluntary.
Authority:	Bylaws of NETA, Inc.
Fees:	Fees for NETA membership and accreditation.
Accreditation Action Frequency:	On-going monitoring by report and peer review by the Ethics Committee. Application must be kept current.
Assessors:	Members from three (3) committees composed of currently accredited peers; Membership Committee, Technical Committee and Ethics Committee.
Proficiency Testing Program:	None.
Appeal Procedure:	Specific appeal mechanism rests in bylaws, through Board of Directors to total membership.
Publications:	Acceptance Testing Specifications for Electrical Power Distribution Equipment and Systems; Applications and bylaws.
Logo:	NETA logo used to identify membership and therefore accredited status; also for use on products approved by members.
No. of Labs:	Twenty-six (26) as of August 1991.
Availability of Accreditation:	Available to all U.S. testing laboratories.
List/Directory of Accredited Labs:	Listing of NETA Full Member Companies.
Int'l Recognition/Agreements:	None.
Other Recognition:	None.

Professional/Trade (PT) Organization:

NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB)
 ON-SITE TESTING ADJUSTING AND BALANCING (TAB)
 Laboratory Certification Program
 1385 Piccard Drive
 Rockville, MD 20850-4340

Phone: 301-977-3698
Fax: 301-977-9589

Date Established: 1971.

Scope: The certification (accreditation) of the management of testing and inspection firms engaged in Testing, Adjusting and Balancing (TAB) of environmental systems and clean room performance and measurement for sound and vibration levels to offer tangible proof of competent firms and supervisors qualified in proper methods and procedures in TAB.

Fields of Testing: Acoustic/vibration measurement, mechanical, and metrology.

Products Tested: Environmental systems, clean rooms.

Standards/Test Methods: NEBB Procedural Standards for Testing, Adjusting and Balancing of Environmental Systems, NEBB Procedural Standards for Measuring Sound and Vibration, and the referenced standards and test methods that may be indicated.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	_____
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	_____
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

Accreditation Terminology	Certified Testing, Adjusting and Balancing (TAB) organization.
Compliance Conformance:	Voluntary.
Authority:	Bylaws of the NEBB co-sponsored by the Mechanical Contractors Association of America (MCAA) and the Sheet Metal and Air Conditioning Contractors National Association (SMACNA).
Fees:	There is a fee to participate, which is set by the NEBB.
Accreditation Action Frequency:	Re-certification every two (2) years through physical inventory verification.
Assessors:	Technical consulting experts.
Proficiency Testing Program:	None.
Appeal Procedure:	Appeals may be made to the NEBB Board of Directors.
Publications:	Application material, course instruction and procedures, along with a directory containing an overview of the NEBB Certification (accreditation) Program, NEBB Model Specification, and <i>A Directory of NEBB Certified (accredited) Firms</i> .
Logo:	NEBB logo is used with individual identification numbers.
No. of Labs:	Two hundred (200) as of August 1991.
Availability of Accreditation:	Accreditation is available to all U.S. testing laboratories.
List/Directory of Accredited Labs:	<i>A Directory of NEBB Certified Firms</i> .
Int'l Recognition/Agreements:	Coordination activities are carried out with associations operating similar programs in various countries.
Other Recognition:	Department of Defense for Clean Room Performance Testing.

**Professional/Trade
(PT) Organization:**

NATIONAL MARINE MANUFACTURERS
ASSOCIATION (NMMA)
Certification Program-Approved Laboratory and
Inspection Agency System
401 N. Michigan Avenue
Chicago, IL 60611

**Phone:
Fax:**

312-836-4747
312-329-9815

Date Established:

1968.

Scope:

To approve independent laboratories and inspection agencies to perform necessary initial compliance tests and required follow-up inspections on recreational boats, boating equipment, components, electrical systems, sanitation devices, navigational lighting and trailer.

Fields of Testing:

Acoustic/vibration measurement, chemical, electrical, mechanical, and optics and photometry testing.

Products Tested:

Boats, yachts, trailers, two-cycle gasoline engine lubricants.

**Standards/Test
Methods:**

Uses ASTM, ANSI, ASME, CGA, NEMA, UL, NEC, IEEE, NMMA, SAE, ABYC standards, military specifications, and federal standards including those issued by DOT and the U.S. Coast Guard.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	x
Financial Stability	x
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	_____
Periodic Scheduled Re-audit of Facilities	_____
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

Accreditation Terminology:	Accredited (Approved) Independent Laboratories.
Compliance Conformance:	Voluntary.
Authority:	Bylaws of the National Marine Manufacturers Association.
Fees:	None.
Accreditation Action Frequency:	Accreditation continues until revoked; on-site services depend on experience with laboratory.
Assessors:	The technically competent, experienced staff of the NMMA are employed, with the Manager of Certification playing a leading role.
Proficiency Testing Program:	None.
Appeal Procedure:	Since the relationship is contractual, normal corporate appeal mechanisms are employed.
Publications:	<i>NMMA Certification Handbook</i> is the principal publication, in addition to which necessary applications and other supporting documents are published.
Logo:	None.
No. of Labs:	Five (5) as of June 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	Laboratories List with Certified Products Directory.
Int'l Recognition/Agreements:	None.
Other Recognition:	None.

**Professional/Trade
(PT) Organization:**

**NATIONAL SAFE TRANSIT ASSOCIATION (NSTA)
TECHNICAL VERIFICATION PROGRAM**
43 E. Ohio Street, Suite 914
Chicago, IL 60611

**Phone:
Fax:**

312-645-0083
312-645-1878

Date Established:

Approximately 1947.

Scope:

The Association's program involves the pre-shipment testing of packaged products. The procedure approves laboratories that may test to the voluntary standards of the National Safe Transit Association. Pre-shipment testing is then symbolized on the approved containers.

Fields of Testing:

Mechanical.

Products Tested:

Packaged products.

**Standards/Test
Methods:**

The Association standards are employed; and they, in turn, reference ASTM D999, D880, and D642, and Technical Association of the Pulp and Paper Industry (TAPPI) Standards T801 and T804.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	_____
On-site Inspection	x
Staff Qualification Requirements	_____
Adequate Q.A. System	x
Sample Control/Integrity Requirements	_____
Recordkeeping Requirements	_____
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	_____
Periodic Random Re-audit of Facilities	_____
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

**Accreditation
Terminology**

Certified Laboratories.

Compliance Conformance:	Voluntary.
Authority:	The laboratory accreditation program is part of a packaging certification program which is basic to the charter and bylaws of the National Safe Transit Association.
Fees:	Annual membership fee.
Accreditation Action Frequency:	Laboratories are accredited every 2 years.
Assessors:	NSTA Technical Committee.
Proficiency Testing Program:	None is employed; however, the retest actions of the Association constitute a form of proficiency measurement method.
Appeal Procedure:	Appeals are made to the technical division for processing.
Publications:	NSTA Test Procedures, Technical Verification Reports.
Logo:	None for laboratories, but certified packaging is accorded the right to use a symbol with the legend "Transit Tested...National Safe Transit Association." No special laboratory identification symbol is employed.
No. of Labs:	One hundred forty-eight (148) as of August 1991.
Availability of Accreditation:	Accreditation available to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	National Safe Transit Association (NSTA) <i>1990 Membership Directory</i> .
Int'l Recognition/Agreements:	The Association is active in Canada.
Other Recognition:	NSTA is currently exploring means of cooperation with the United Kingdom, Western Europe, and United Nations counterparts to NSTA.

**Professional/Trade
(PT) Organization:**

NATIONAL SANITATION FOUNDATION (NSF) INTERNATIONAL
(formerly National Sanitation Foundation)
3475 Plymouth Road
P.O. Box 130140
Ann Arbor, MI 48113-0140

Phone: 313-769-8010
Fax: 313-769-0109
Telex: 753215 NSF INTL

Date Established: 1951.

Scope: Accreditation of environmental analytical laboratories, with emphasis on drinking water.

Fields of Testing: Biological, chemical, construction materials, and mechanical.

Products Tested: Drinking water additives and water handling devices.

Standards/Test Methods: ANSI/NSF 60 and 61, *Standards and Related Test Methods*.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u>X</u>
Independence (No Conflict-of-Interest)	<u>X</u>
Financial Stability	<u> </u>
On-site Inspection	<u>X</u>
Staff Qualification Requirements	<u>X</u>
Adequate Q.A. System	<u>X</u>
Sample Control/Integrity Requirements	<u>X</u>
Recordkeeping Requirements	<u>X</u>
Test Report Content/Format Requirements	<u>X</u>
Available Operational Manuals/Instructions	<u>X</u>
Periodic Random Re-audit of Facilities	<u>X</u>
Periodic Scheduled Re-audit of Facilities	<u>X</u>
Participation in a Proficiency Testing Program	<u>X</u>
Adequacy of Facilities and Equipment	<u>X</u>
Equipment Maintenance/Calibration Requirements	<u>X</u>
Other:	<u> </u>

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies*.

Accreditation Terminology: Accredited Environmental Analytical Laboratories.

Compliance Conformance: Voluntary.

Authority:	Bylaws of NSF International.
Fees:	Fees are in relationship to the extent of accreditation. Fee schedules are available on request from NSF International.
Accreditation Action Frequency:	Not yet determined.
Assessors:	Professional/scientific staff of NSF International.
Proficiency Testing Program:	Yes, EPA related.
Appeal Procedure:	A formal appeal procedure is provided for in the <i>NSF Program Procedures Manual</i> .
Publications:	<i>Standards, Applications, and Program Descriptions Directory</i> .
Logo:	None.
No. of Labs:	None besides NSF as of May 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	<i>Directory of Certified Products</i> will contain accredited laboratories list, as required.
Int'l Recognition/Agreements:	None.
Other Recognition:	ANSI, BOCA, SBCCI, IAPMO, the Massachusetts Plumbing Board and the City of Los Angeles.

Professional/Trade (PT) Organization: NATIONAL WOOD WINDOW AND DOOR ASSOCIATION (NWWDA)
 1400 East Touhy Avenue
 DesPlaines, IL 60018

Phone: 708-299-5200
Fax: 708-299-1286

Date Established: 1981.

Scope: Third party certification program operated in accordance with ANSI Z34.1. Includes requirement to assure competency of laboratories.

Fields of Testing: Construction materials, mechanical, and thermal.

Products Tested: Windows and doors.

Standards/Test Methods: National Wood Window and Door Association Standards and Specifications with related referenced test methods are used.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u> x </u>
Independence (No Conflict-of-Interest)	<u> x </u>
Financial Stability	<u> </u>
On-site Inspection	<u> </u>
Staff Qualification Requirements	<u> x </u>
Adequate Q.A. System	<u> </u>
Sample Control/Integrity Requirements	<u> </u>
Recordkeeping Requirements	<u> </u>
Test Report Content/Format Requirements	<u> </u>
Available Operational Manuals/Instructions	<u> </u>
Periodic Random Re-audit of Facilities	<u> </u>
Periodic Scheduled Re-audit of Facilities	<u> </u>
Participation in a Proficiency Testing Program	<u> </u>
Adequacy of Facilities and Equipment	<u> x </u>
Equipment Maintenance/Calibration Requirements	<u> </u>
Other: Must belong to a Lab Certification Program	<u> x </u>

Other Information: None.

Accreditation Terminology: Certified Laboratories.

Compliance Conformance: Voluntary.

Authority: Association's Bylaws.

Fees:	There is a fee to participate. These fees are set by NWWDA, and the fee schedule can be obtained from NWWDA.
Accreditation Action Frequency:	An initial documentation review is required only. No subsequent reviews are required.
Assessors:	The Association's staff assess the laboratories.
Proficiency Testing Program:	None.
Appeal Procedure:	Appeals may be made through certification program staff personnel to Association Executives and Board.
Publications:	<i>NWWDA Membership and Product Directory.</i>
Logo:	Hallmark of NWWDA.
No. of Labs:	Twenty-five (25) as of May 1991.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	A Directory is published by NWWDA which may be obtained by contacting NWWDA.
Int'l Recognition/Agreements:	None.
Other Recognition:	Department of Housing and Urban Development (HUD).

**Professional/Trade
(PT) Organization:**

**PERFORMANCE REVIEW INSTITUTE (PRI)
APPROVAL OF INITIAL CONFORMITY AND QUALITY
ASSURANCE TESTING LABORATORIES FOR
NATIONAL AEROSPACE AND DEFENSE CONTRACTORS
THIRD-PARTY ACCREDITATION (NADCAD) PROGRAM**
402 Commonwealth Drive
Warrendale, PA 15086-7511

Phone: 412-772-1616
Fax: 412-772-1699

Date Established: 1990.

Scope: Approval of laboratories determined competent to test and inspect products, processes, and services of aerospace and defense suppliers.

Fields of Testing: Acoustic/vibration, chemical, electrical, mechanical, metrology, nondestructive, optics and photometry, and thermal.

Products Tested: Aircraft sealants, fasteners, electronic piece parts (printed circuit boards), High Pressure Hoses and Fittings.

Standards/Test Methods: Published Society of Automotive Engineers (SAE) *Aerospace Standards and Commodity Check Lists of PRI.*

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	_____
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	_____
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	_____
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

Accreditation Terminology Accredited Third-Party Laboratories.

Compliance Conformance:	Voluntary.
Authority:	NADCAD Council.
Fees:	There is a fee to participate, which is set by NADCAP Council.
Accreditation Action Frequency:	Annual review and reaccreditation assessment.
Assessors:	PRI trained auditors under contract.
Proficiency Testing Program:	None.
Appeal Procedure:	Multi-level appeals are available through Commodity Task Group, Appeals Committee, Steering Committee, User's Accreditation Advisory Panel, and ultimately, the NADCAD Council.
Publications:	Brochures, Executive Summary/Briefing, Audit Checklists, Program Description and Operation.
Logo:	None for laboratories.
No. of Labs:	Ten (10) Pilot Nondestructive Testing Facilities as of August 1991.
Availability of Accreditation:	Accreditation available to all labs, foreign and domestic.
List/Directory of Accredited Labs:	<i>Qualified Manufacturer's List (QML)</i> – Published hard copy and/or on-line network accessed by a personal computer with modem includes <i>Accredited Third-Party List</i> .
Int'l Recognition/Agreements:	Coordination through international aerospace associations is planned.
Other Recognition:	American Society of Nondestructive Testing (ASNT).

**Professional/Trade
(PT) Organization:**

PRECAST/PRESTRESSED CONCRETE INSTITUTE (PCI)
175 W. Jackson Boulevard, Suite 1859
Chicago, IL 60604

**Phone:
Fax:**

312-786-0300
312-786-0353

Date Established:

1967.

Scope:

Confirmation that a manufacturer of precast/prestressed concrete has the capability to produce products in conformance to the industry's quality control standards.

Fields of Testing:

Construction materials.

Products Tested:

Architectural and structural concrete products for buildings and bridges. Plant manufacturing and quality control procedures, personnel and equipment. Company shop drawings, product designs and recordkeeping.

**Standards/Test
Methods:**

MNL-116, *Manual for Quality Control for Plants and Production of Precast and Prestressed Concrete Products*; MNL-117, *Manual for Quality Control for Plants and Production of Architectural Precast Concrete Products*; MNL-130, *Manual for Quality Control for Plants and Production of Glass Fiber Reinforced Concrete Products* - Available from PCI.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	_____
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	_____
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	_____
Periodic Scheduled Re-audit of Facilities	x
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other: Review of shop drawings and design calculations	x

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies*.

Accreditation Terminology	PCI Certified Plant.
Compliance Conformance:	Voluntary program (mandatory in the specifications of many agencies).
Authority:	Established under the bylaws of the PCI.
Fees:	Accredited members pay \$3360 per year, with an initial payment made for the initial inspection and approval of system, and balance paid on monthly basis.
Accreditation Action Frequency:	Approximately every four (4) months - There are three (3) inspections annually.
Assessors:	The PCI "Inspection Agency," a private consulting engineering company which employs an inspection staff of twelve (12) engineers.
Proficiency Testing Program:	None.
Appeal Procedure:	Step 1 - Written appeal with supporting documentation; and Step 2 - Formal hearing by a Certification Appeal Committee.
Publications:	Plant certification brochure lists objectives of program and benefits to specifiers.
Logo:	PCI logo.
No. of Labs:	One hundred forty-eight (148) as of April 1991.
Availability of Accreditation:	Open to all manufacturers, foreign and domestic.
List/Directory of Accredited Labs:	List of PCI Certified Plants published twice a year and updated bimonthly in the PCI Journal.
Int'l Recognition/Agreements:	Canadian Standards Association Certification Program for precast concrete plants (Standard A251).
Other Recognition:	Federal Highway Administration; State Departments of Transportation (AL, DE, IL, PA, WV, VA, WA, NJ, MA); Naval Facilities Engineering Command; cities of Houston, Phoenix and Seattle; U.S. Corp. of Engineers.

**Professional/Trade
(PT) Organization:**

**SAFETY GLAZING CERTIFICATION COUNCIL (SGCC)
APPROVED TESTING LABORATORIES FOR TESTING IN THE
ANSI AND CONSUMER PRODUCT SAFETY
COMMISSION (CPSC)**
c/o ETL Testing Laboratories, Inc.
Industrial Park
3933 U.S. Route 11
P.O. Box 2040
Cortland, NY 13045-0950

Phone: 607-753-6711
Fax: 607-756-9891

Date Established: 1971.

Scope: Approval of safety glazing materials as an industry certification program with laboratory accreditation of firms which provide necessary test and inspection services.

Fields of Testing: Chemical and mechanical.

Products Tested: Plastics, glass and glass products.

Standards/Test Methods: American National Standard Z97.1 - 1984, glazing material standard, which employs reference standards of voluntary consensus bodies. Also requirements of Consumer Product Safety Commission under its standard 16 CR 1202, and any other requirements deemed appropriate by the Council.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u> x </u>
Independence (No Conflict-of-Interest)	<u> x </u>
Financial Stability	<u> </u>
On-site Inspection	<u> x </u>
Staff Qualification Requirements	<u> x </u>
Adequate Q.A. System	<u> x </u>
Sample Control/Integrity Requirements	<u> x </u>
Recordkeeping Requirements	<u> x </u>
Test Report Content/Format Requirements	<u> x </u>
Available Operational Manuals/Instructions	<u> x </u>
Periodic Random Re-audit of Facilities	<u> </u>
Periodic Scheduled Re-audit of Facilities	<u> x </u>
Participation in a Proficiency Testing Program	<u> </u>
Adequacy of Facilities and Equipment	<u> x </u>
Equipment Maintenance/Calibration Requirements	<u> x </u>
Other:	<u> </u>

Other Information:	Requirements are comparable to those contained in ASTM E548-84, <i>Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies</i> .
Accreditation Terminology	Approved Testing Laboratories.
Compliance Conformance:	Voluntary.
Authority:	Basic to the bylaws, which established the Safety Glazing Certification Council, and administrative actions.
Fees:	Laboratories only pay cost of the survey and inspection of the laboratory facilities. Representative attendance at an annual meeting is required. Periodic inspections are at no cost to the laboratory.
Accreditation Action Frequency:	Periodic inspections are scheduled.
Assessors:	The Administrative Manager (a Professional Registered Engineer) or his delegate handles all laboratory assessment details.
Proficiency Testing Program:	None.
Appeal Procedure:	All appeals of any nature are referred to the Chairman of the Certification Committee and then to the Council, if necessary.
Publications:	<i>Certified Products Directories</i> .
Logo:	None.
No. of Labs:	Nine (9) as of January 1991.
Availability of Accreditation:	Accreditation available to all labs, foreign and domestic.
List/Directory of Accredited Labs:	Approved Laboratories listed in <i>Certified Products Directory</i> .
Int'l Recognition/Agreements:	None.
Other Recognition:	None.

Professional/Trade (PT) Organization:

SOLAR RATING AND CERTIFICATION CORPORATION (SRCC)
 Accredited Laboratory Program
 777 North Capitol Street, N.E., Suite 805
 Washington, DC 20002

Phone: 202-408-0660
Fax: 202-408-8536

Date Established: 1982.

Scope: Accreditation of testing laboratories for testing of solar collectors and solar domestic water heater systems.

Fields of Testing: Construction materials, electrical, mechanical, optics and photometry, and thermal.

Products Tested: Solar collectors, solar hot water systems.

Standards/Test Methods: *Test Methods Solar Collectors* C81017 (SRCC 100-81); *Test Methods for Certifying Solar Hot Water Systems* S82018 (SRCC 200-82).

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	x
Financial Stability	_____
On-site Inspection	x
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	_____
Recordkeeping Requirements	_____
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	_____
Periodic Scheduled Re-audit of Facilities	_____
Participation in a Proficiency Testing Program	_____
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

Accreditation Terminology: Accredited Testing Laboratories.

Compliance Conformance: Voluntary.

Authority:	Solar Rating and Certification Corporation (SRCC).
Fees:	There is a fee to participate, which is set by the SRCC.
Accreditation Action Frequency:	Annual survey for audit – reassessment every two (2) years.
Assessors:	Member of SRCC Technical Compliance Committee.
Proficiency Testing Program:	None.
Appeal Procedure:	A detailed process contained in program procedures.
Publications:	<i>Detailed Documentation for Certification Program and Laboratory Accreditation.</i>
Logo:	None for laboratory use.
No. of Labs:	Two (2) as of May 1991.
Availability of Accreditation:	Accreditation available to all labs, foreign and domestic.
List/Directory of Accredited Labs:	Accredited Laboratories listed in <i>SRCC Certified Products Directory</i> .
Int'l Recognition/ Agreements:	None.
Other Recognition:	The State of Florida accepts SRCC Certification.

**Professional/Trade
(PT) Organization:**

**SOUTHERN BUILDING CODE CONGRESS
INTERNATIONAL, INC. (SBCCI)**
900 Montclair Road
Birmingham, AL 35213-1206

**Phone:
Fax:**

205-591-1853
205-592-7001

Date Established:

1971.

Scope:

To provide members and others with model building codes, list of products that comply with these codes and referenced standards, and a list of laboratories whose task reports have been found to meet the Code and standard requirements.

Fields of Testing:

Acoustic/vibration, chemical, construction materials, mechanical, nondestructive, and thermal.

Products Tested:

Any product related to the construction industry, with primary emphasis on those products and systems used in the design and construction of buildings.

**Standards/Test
Methods:**

The standards are nationally recognized consensus standards listed in the *Standard Codes*, published by the SBCCI.

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u> x </u>
Independence (No Conflict-of-Interest)	<u> x </u>
Financial Stability	<u> x </u>
On-site Inspection	<u> x </u>
Staff Qualification Requirements	<u> x </u>
Adequate Q.A. System	<u> x </u>
Sample Control/Integrity Requirements	<u> x </u>
Recordkeeping Requirements	<u> x </u>
Test Report Content/Format Requirements	<u> x </u>
Available Operational Manuals/Instructions	<u> x </u>
Periodic Random Re-audit of Facilities	<u> x </u>
Periodic Scheduled Re-audit of Facilities	<u> x </u>
Participation in a Proficiency Testing Program	<u> </u>
Adequacy of Facilities and Equipment	<u> x </u>
Equipment Maintenance/Calibration Requirements	<u> x </u>
Other:	<u> </u>

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies*.

**Accreditation
Terminology**

Listed Laboratories.

Compliance Conformance:	Voluntary, unless adopted by the authority having jurisdiction.
Authority:	SBCCI Bylaws.
Fees:	A "Compliance Report Fee Schedule" is available from SBCCI.
Accreditation Action Frequency:	Biennially (every two (2) years) - sooner if code change affects accreditation.
Assessors:	SBCCI's full time professional staff of registered architects and engineers.
Proficiency Testing Program:	None.
Appeal Procedure:	There is a specified appeals procedure outlined in the "SBCCI Committee on Compliance Rules of Procedure," which can be obtained from SBCCI.
Publications:	Quarterly publication and listed products and labs.
Logo:	SBCCI.
No. of Labs:	Approximately nine (9) as of October 1990.
Availability of Accreditation:	Open to all laboratories, foreign and domestic.
List/Directory of Accredited Labs:	<i>SBCCI Compliance Report Listing</i> is provided free to members and for a fee to others.
Int'l Recognition/Agreements:	None.
Other Recognition:	More than 2300 state and local governments located in the Southwest, South, Southeast, and Atlantic seaboard recognize the program through use of the Code.

**Professional/Trade
(PT) Organization:**

**THE UNITED STATES NATIONAL ELECTRONIC COMPONENTS
QUALITY ASSESSMENT SYSTEM (NECQ)
ELECTRONIC COMPONENTS CERTIFICATION
BOARD (ECCB)**

Approval of Test Laboratories Program
2001 Eye Street, N.W.
Washington, DC 20006

Phone: 202-457-4962
Fax: 202-457-4985
Telex: 710-822-0148

Date Established: 1984.

Scope: Accreditation of independent and manufacturer testing facilities capable of demonstrating compliance of electronic components to the prevailing manufacturer specifications and national standards.

Fields of Testing: Acoustic/vibration measurement, electrical, mechanical, metrology, and thermal.

Products Tested: Electronic components, equipment, supplies and appliances.

Standards/Test Methods: Standards and specifications for use under the system consist of five levels: Basic, Generic, Sectional, Detail, and Blank Detail specifications.

Assessment Criteria/Procedures: The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	<u> x </u>
Independence (No Conflict-of-Interest)	<u> </u>
Financial Stability	<u> x </u>
On-site Inspection	<u> x </u>
Staff Qualification Requirements	<u> x </u>
Adequate Q.A. System	<u> x </u>
Sample Control/Integrity Requirements	<u> x </u>
Recordkeeping Requirements	<u> x </u>
Test Report Content/Format Requirements	<u> x </u>
Available Operational Manuals/Instructions	<u> x </u>
Periodic Random Re-audit of Facilities	<u> x </u>
Periodic Scheduled Re-audit of Facilities	<u> x </u>
Participation in a Proficiency Testing Program	<u> x </u>
Adequacy of Facilities and Equipment	<u> x </u>
Equipment Maintenance/Calibration Requirements	<u> x </u>
Other:	<u> </u>

Other Information: Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies*. Approval procedures were drawn from EIA Quality Bulletin No. 3, *Procedures and Criteria for Approval of Electronic Testing Laboratories*, September 1975.

Accreditation Terminology	Approved Testing Laboratories.
Compliance Conformance:	Voluntary.
Authority:	Electronic Components Certification Board (ECCB).
Fees:	ECCB approves fees schedule for System Supervising Inspectorate (SSI), which is Underwriters Laboratories.
Accreditation Action Frequency:	Annual on-site reviews.
Assessors:	Staff of the System Supervising Inspectorate (SSI), Underwriters Laboratories, Inc. (UL).
Proficiency Testing Program:	None.
Appeal Procedure:	Detailed in the program.
Publications:	<i>Basic Rules and Rules of Procedures</i> , application forms, etc.
Logo:	None.
No. of Labs:	Five (5) as of August 1991.
Availability of Accreditation:	Available to all U.S. testing labs and foreign private labs.
List/Directory of Accredited Labs:	Approved Laboratories listed in <i>Certification Program Directory</i> .
Int'l Recognition/Agreements:	When the applicable standards and specifications are in conformance with the requirements of the International Electrotechnical Commission (IEC), the released components also may be acceptable internationally through the IECQ System.
Other Recognition:	None.

**Professional/Trade
(PT) Organization:**

UNITED STATES POTTERS' ASSOCIATION (USPA)
518 Market Street
East Liverpool, Ohio 43920

Phone:

216-386-4225

Fax:

Date Established:

1970.

Scope:

Approval of laboratories to perform lead and cadmium-release tests on ceramics.

Fields of Testing:

Chemical.

Products Tested:

Ceramics, clays and clay products.

**Standards/Test
Methods:**

Food and Drug Administration (FDA) and referenced testing procedures and specifications of the American Society for Testing and Materials (ASTM).

**Assessment
Criteria/Procedures:**

The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:

Submission of Appropriate Documentation	x
Independence (No Conflict-of-Interest)	_____
Financial Stability	_____
On-site Inspection	_____
Staff Qualification Requirements	x
Adequate Q.A. System	x
Sample Control/Integrity Requirements	x
Recordkeeping Requirements	x
Test Report Content/Format Requirements	x
Available Operational Manuals/Instructions	x
Periodic Random Re-audit of Facilities	_____
Periodic Scheduled Re-audit of Facilities	_____
Participation in a Proficiency Testing Program	x
Adequacy of Facilities and Equipment	x
Equipment Maintenance/Calibration Requirements	x
Other:	_____

Other Information:

Requirements are comparable to those contained in ASTM E548-84, *Standard Practice for Preparation of Criteria for Use in the Evaluation of Testing Laboratories and Inspection Bodies.*

**Accreditation
Terminology**

Approved Laboratories.

**Compliance
Conformance:**

Voluntary.

Authority:

Board of Directors, United States Potters' Association.

Fees:	There is a fee to participate which is set by the USPA.
Accreditation Action Frequency:	Samples of product by manufacturer sent twice annually to approved laboratory with report on results going to Association and FDA.
Assessors:	Research Committee of the United States Potters' Association.
Proficiency Testing Program:	Operated by the Research Committee with standard references for Atomic Absorption determination.
Appeal Procedure:	To the Board of Directors of the Association through prior appeal to the United States Potters' Association's Research Committee.
Publications:	<i>Procedures of the Program.</i>
Logo:	None.
No. of Labs:	Fifteen (15) as of August 1991.
Availability of Accreditation:	Accreditation available to all labs, foreign and domestic.
List/Directory of Accredited Labs:	<i>Approved Laboratories List.</i>
Int'l Recognition/ Agreements:	None.
Other Recognition:	FDA consults on lead in ceramics.

APPENDIX I
INDICES

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**PROFESSIONAL/TRADE ORGANIZATION
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¹Categories from E 1224-88 *Standard Guide for Categorizing Fields of Testing for Laboratory Accreditation Purposes*

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FORMAT USED FOR EACH ENTRY

Received:

<u>PROFESSIONAL/TRADE</u>	<u>ACCREDITATION/DESIGNATION</u>	<u>FORMAT FOR ENTRIES</u>
Professional/Trade (PT) Organization:	The responsible entity, address, telephone, telex, and fax numbers, if available.	
Date Established:	The date the accreditation/designation program was begun.	
Scope:	Brief description of the organization's mission, scope and intent of the accreditation or designation.	
Fields of Testing:	The fields of testing from ASTM E 1224-88, <i>Standard Guide for Categorizing Fields of Testing for Laboratory Accreditation</i> , used by the system and/or other fields as indicated by the system.	
Products Tested:	The products/services which laboratories are accredited or designated to test, examine, inspect.	
Standards/Test Methods:	The documents (e.g., national, international, voluntary, regulatory, private sector, or governmental standards, protocols, test methods, specifications) employed by the accrediting organization to define the terms of accreditation or designation.	
Assessment Criteria/Procedures:	<p>The criteria/procedures used by the program to ensure the competence of a laboratory to conduct a test or set of tests, including:</p> <ul style="list-style-type: none"> Submission of Appropriate Documentation _____ Independence (No Conflict-of-Interest) _____ Financial Stability _____ On-site Inspection _____ Staff Qualification Requirements _____ Adequate Q.A. System _____ Sample Control/Integrity Requirements _____ Recordkeeping Requirements _____ Test Report Content/Format Requirements _____ Available Operational Manuals/Instructions _____ Periodic Random Re-audit of Facilities _____ Periodic Scheduled Re-audit of Facilities _____ Participation in a Proficiency Testing Program _____ Adequacy of Facilities and Equipment _____ Equipment Maintenance/Calibration Requirements _____ Other: _____ 	
Other Information:	Any other relevant information on the criteria and procedures used in the operation of the system.	

Accreditation Terminology:	Term(s) used by the accrediting authority to refer to a lab which has met the accreditation criteria (e.g., approved, recognized, listed, accepted, etc.).
Compliance Conformance:	Whether the program is voluntary or mandatory, or mandatory only under specified circumstances.
Authority:	The organizational bylaws, official adoptions, or other (e.g., certification program implementation) actions which authorized the conduct of a laboratory accreditation or designation system.
Fees:	The fees and/or other costs* incurred by a laboratory to participate in the accreditation system or to become a designated facility (* e.g., required: personnel certifications, training services, seminar and convention attendance, memberships).
Accreditation Action Frequency:	The length of time an accreditation or designation is valid - period to reaccreditation or to reassessment.
Assessors:	Who conducts the assessment and their qualifications.
Proficiency Testing Program:	Methods (if any) used to check lab performance using interlaboratory testing.
Appeal Procedure:	Appeals process/procedures used by the system; if part of a product certification program, challenge procedures.
Publications:	Available information on accredited/designated laboratories or other documentation.
Logo:	Any program authorized logo or other mark used by accredited or designated labs.
No. of Labs:	The number of labs accredited as of a specified date.
Availability of Accreditation:	Whether the accreditation or designation is open to U.S. profit and/or nonprofit, private sector labs; federal labs; state government labs; and/or private or governmental foreign labs.
List/Directory of Accredited Labs:	Available directories/lists of accredited or designated laboratories or directories/lists of products which include approved laboratories.
Int'l Recognition/Agreements:	Any recognition (reciprocity) of the accreditation by foreign governments or international organizations. Agreements between the U.S. system and other country(s) on mutual recognition of accredited labs or test results from accredited or designated labs - and basis and limitations, if any.
Other Recognition:	Any recognition (and/or reciprocity) of the accreditation or designation by another private sector professional/trade association, organization, code body, federal, state or municipal agency.

APPENDIX III

RECONCILIATION OF PROFESSIONAL/TRADE ORGANIZATION ACCREDITATION SYSTEMS APPEARING IN NBS GCR 84-472

PT.ADC.1	<p>AIR DIFFUSION COUNCIL (ADC) — Chicago, IL 60601</p> <p>Equipment Certification Program, which was justification for accreditation program, was discontinued.</p>
PT.AL.1 PT.AL.2 PT.AL.3 PT.AL.4 PT.AL.5	<p>ASSOCIATED LABORATORIES, INC. (ALI)</p> <p>Certification programs for individual accreditation systems have now been combined in a single report.</p>
PT.ETL.1 PT.ETL.2 PT.ETL.3 PT.ETL.4 PT.ETL.5	<p>ETL TESTING LABORATORIES, INC.</p> <p>Certification programs for individual accreditation systems have now been combined in a single report.</p>
PT.IEEE.NR.1	<p>INSTITUTE OF ELECTRONIC ENGINEERS (IEEE)</p> <p>Prospective Certificate of Accreditation Program for Nuclear Safety Equipment is discontinued.</p>
PT.IACP.NILES.1	<p>INTERNATIONAL ASSOCIATION OF CHIEFS OF POLICE, INC.</p> <p>Program for Accreditation (approval) of Laboratories that test for product compliance with the national standards promulgated by the National Institute of Justice is no longer in operation. Some of its activities have been assumed by the Technology Assessment Program of the Aspen Systems Corp., 1600 Research Blvd., Rockville, MD 20850.</p>
PT.WWAA.1	<p>WATER AND WASTE WATER ANALYST ASSOCIATION LABORATORY CERTIFICATION PROGRAM</p> <p>Program is now inactive. Personnel Certification Program for Analysts, in lieu thereof by Texas Water Utilities Association, 1106 Clayton Lane, Suite 101 East, Austin, TX 78723-1033.</p>

PT.LHC.QC.1	<p>LOG HOMES COUNCIL (LHC) <i>is now the North American Log Homes Council of the Building Systems Councils of the National Association of Homes Builders</i>, 15th & M Streets, N.W., Washington, DC 20005.</p> <p>The program is now limited to log grading, and accreditation is now limited to certified log graver personnel.</p>
PT.OACE.1	<p>OHIO ASSOCIATION OF CONSULTING ENGINEERS, INC. CONCRETE TESTING LABORATORY ACCREDITATION PROGRAM</p> <p>Program was discontinued when Concrete Testing Accreditation under the National Voluntary Laboratory Accreditation (NVLAP) Construction Testing Services Program became available from National Institute of Standards and Technology (NIST).</p>
PT.UL.DATA.1	<p>ACCREDITATION OF LABORATORIES FOR SUBMISSION OF TEST DATA FOR UNDERWRITERS LABORATORIES (UL)</p> <p>Product submittals — withdrawn by UL's W.J. Smith, Director of Corporate Planning by letter dated April 29, 1991 stating:</p> <p>"Evaluation of data generated by others is but one element of any accreditation program. UL's work in this area would not fit the accepted designation of 'Accredited' or 'Accreditation' as used in the United States and abroad. Accordingly, we request that the UL entry in PAUSLAS be withdrawn."</p>
PT.NCTL.1 PT.NCTL.2	<p>NATIONAL CERTIFIED TESTING LABORATORIES, INC. (NCTL)</p> <p>Certification programs for individual accreditation systems have now been combined in a single report.</p>
PT.NSF.1 PT.NSF.2	<p>NSF INTERNATIONAL, INC. (NSF) <i>Formerly National Sanitation Foundation, Inc.</i></p> <p>Certification programs for individual accreditation systems have now been combined in a single report.</p>

APPENDIX IV

ACRONYMS AND ABBREVIATIONS

A2LA	American Association for Laboratory Accreditation
AA	Aluminum Association
AAALAC	American Association for the Accreditation of Laboratory Animal Care
AABB	American Association of Blood Banks
AAMA	American Architectural Manufacturers Association
AAMVA	American Association of Motor Vehicle Administrators
AAP	AASHTO Accreditation Program
AAR	Association of American Railroads
AASHTO	American Association of State Highway and Transportation
ABYC	American Boat and Yacht Council
AIHA	American Industrial Hygiene Association
AISC	American Institute of Steel Construction
ALI	Associated Laboratories, Inc.
AMCA	Air Movement and Control Association
AMRL	AASHTO Materials Reference Laboratory
ANSI	American National Standards Institute
AOCS	American Oil Chemists' Society
ASME	American Society of Mechanical Engineers
ASNT	American Society of Nondestructive Testing
ASTM	American Society for Testing and Materials
AWPA	American Wood Preservers Association
AWPB	American Wood Preservers Bureau
BACTL	Board of Accreditation of Concrete Testing Laboratories, Inc.
BOCA	Building Officials and Code Administrators International
CABO	Council of American Building Officials
CAP	College of American Pathologists
CCRL	Cement and Concrete Reference Laboratory
CDL	Certified Dental Laboratory
CGA	Compressed Gas Association
CISEP	Cellulose Industry Standards Enforcement Program
COS	Corporation for Open Systems International
CPSC	Consumer Product Safety Commission
DOT	Department of Transportation

Acronyms and Abbreviations (Continued)

ECCB	Electronic Components Certification Board
EPA	Environmental Protection Agency
ETL	ETL Testing Laboratories
FDA	Food and Drug Administration
FMVSS	Federal Motor Vehicle Safety Standards
FTC	Federal Trade Commission
GOSIP	Government Open Systems Interconnection Protocol
HHS	Health and Human Services, Department of
HUD	Housing and Urban Development, Department of
I&A	Inspection and Accreditation Program
IAPMO	International Association of Plumbing and Mechanical Officials
ICBO	International Conference of Building Officials
IEC	International Electrotechnical Commission
IECQ	International Electrotechnical Commission Quality Assessment System for Electronic Components
IEEE	Institute of Electrical and Electronics Engineers
IGCC	Insulating Glass Certification Council
IH	Industrial Hygiene
JCAH	Joint Commission on Accreditation of Hospitals
KCMA	Kitchen Cabinet Manufacturers Association
MCAA	Mechanical Contractors Association of America
MET	MET Electrical Testing Company Inc.
MTL	MTL Certification Services Co., Inc.
NADCAD	National Aerospace and Defense Contractors Third-Party Accreditation
NADL	National Association of Dental Laboratories
NAIL	National Association of Independent Laboratories
NAMAS	National Measurement Accreditation Service of the United Kingdom
NATA	National Association of Testing Authorities (Australia)
NBBPVA	National Board of Boiler and Pressure Vessel Inspectors
NBC	National Board for the Certification of Dental Laboratories
NCTL	National Certified Testing Laboratories, Inc.
NEBB	National Environmental Balancing Bureau
NEC	National Electrical Code
NECQ	The United States National Electronic Components Quality Assessment System
NEMA	National Electrical Manufacturers Association
NES	National Evaluation Service

Acronyms and Abbreviations (Continued)

NETA	National Electrical Testing Association
NFPA	National Fire Protection Association
NHTSA	National Highway Traffic Safety Administration (DOT)
NIOSH	National Institute for Occupational Safety and Health (Center for Disease Control, DHHS)
NIST	National Institute of Standards and Technology (DOC)
NMMA	National Marine Manufacturers Association
NRB	National Research Board
NRTL	Nationally Recognized Testing Laboratory
NSF	National Sanitation Foundation
NSI	National Supervisory Inspectorate
NSPA	National Soybean Processors Association
NSTA	National Safe Transit Association
NVLAP	National Voluntary Laboratory Accreditation Program (NIST, DOC)
NWMA	National Woodwork Manufacturers Association
NWWDA	National Wood Window and Door Association
OSI	Open Systems Interconnection
OSTS	Open Systems Testing Consortium
PAUSLAS	Principal Aspects of U.S. Laboratory Accreditation Systems
PCI	Precast/Prestressed Concrete Institute
PRI	Performance Review Institute
QML	Qualified Manufacturer's List
SAE	Society of Automotive Engineers
SBCCI	Southern Building Code Congress International
SGCC	Safety Glazing Certification Council
SMACNA	Sheet Metal and Air Conditioning Contractors National Association
SRCC	Solar Rating and Certification Corporation
SSI	System Supervising Inspectorate
TAB	Testing Adjusting and Balancing
TELARC	Testing Laboratory Registration Council of New Zealand
TMC	Test Monitoring Center
UL	Underwriters Laboratories
USPA	United States Potters' Association

APPENDIX V
INFORMATION AND PUBLICATIONS AVAILABLE FROM

Standards Code and Information Program (SCI)
Office of Standards Services (OSS)
National Institute of Standards and Technology
Administration Building, Room A629
Gaithersburg, MD 20899
(301) 975-4029

o The ABC's of Standards-Related Activities in the United States (NBSIR 87-3576)

This report is an introduction to voluntary standardization, product certification and laboratory accreditation for readers not fully familiar with these topics. It stresses some of the more important aspects of these fields; furnishes the reader with both historical and current information on these topics; describes the importance and impact of the development and use of standards; and serves as background for using available documents and services. Order as PB 87-224309 from NTIS.

o The ABC'S of Certification Activities in the United States (NBSIR 88-3821)

This report, a sequel to NBSIR 87-3576, The ABC'S of Standards-Related Activities in the United States, provides an introduction to certification for readers not entirely familiar with this topic. It highlights some of the more important aspects of this field, furnishes the reader with information necessary to make informed purchases, and serves as background for using available documents and services. Order as PB 88-239793 from NTIS.

o Laboratory Accreditation in the United States (NISTIR 4576)

This report, a sequel to NBSIR 87-3576 The ABC'S of Standards-Related Activities in the United States and NBSIR 88-3821 The ABC'S of Certification Activities in the United States, is designed to provide information on laboratory accreditation to readers who are new to this field. It discusses some of the more significant facets of this topic, provides information necessary to make informed decisions on the selection and use of laboratories, and serves as background for using other available documents and services. Order as PB 91-194495 from NTIS.

o Directory of International and Regional Organizations Conducting Standards-Related Activities (NIST SP 767)

This directory contains information on 338 international and regional organizations which conduct standardization, certification, laboratory accreditation, or other standards-related activities. It describes their work in these areas, as well as the scope of each organization, national affiliations of members, U.S. participants, restrictions on membership, and the availability of any standards in English. Order as SN 003-003-02937-8 from GPO.

o Directory of European Regional Standards-Related Organizations
(NIST SP 795)

This directory identifies more than 150 European regional organizations - both governmental and private - that engage in standards development, certification, laboratory accreditation and other standards-related activities, such as quality assurance. Entries describe the type and purpose of each organization; acronyms; national affiliations of members; the nature of the standards-related activity; and other related information.
Order as SN 003-003-03038-4 from GPO.

o Standards Activities of Organizations in the United States (NIST SP 806)

The directory identifies and describes activities of over 750 U.S. public and private sector organizations which develop, publish, and revise standards; participate in this process; or identify standards and make them available through information centers or distribution channels. NIST SP 806, a revision of NBS SP 681, covers activities related to both mandatory and voluntary U.S. standards. SP 806 also contains a subject index and related listings that cover acronyms and initials, defunct bodies and organizations with name changes.
Copies not available from SCI. Order as SN 003-003-03070-8 from GPO.

o Directory of Private Sector Product Certification Programs (NIST SP 774)

This directory presents information from 132 private sector organizations in the United States which engage in product certification activities. Entries describe the type and purpose of each organization, the nature of the activity, product certified, standards used, certification requirements, availability and cost of services, and other relevant details.
Copies not available from SCI. Order as SN 003-003-02984-0 from GPO.

o Directory of Federal Government Certification Programs
(NBS SP 739)

This directory presents information on U.S. Government certification programs for products and services. Entries describe the scope and nature of each certification program, testing and inspection practices, standards used, methods of identification and enforcement, reciprocal recognition or acceptance of certification, and other relevant details.
Order as SN 003-003-02852-5 from GPO.

o Directory of Federal Government Laboratory Accreditation/Designation Programs (NIST SP 808)

This directory provides updated information on 31 federal government laboratory accreditation and similar type programs conducted by the federal government. These programs, which include some type of assessment regarding laboratory capability, designate sets of laboratories or other entities to conduct testing to assist federal agencies in carrying out their responsibilities. The directory also lists 13 other federal agency programs of possible interest, including programs involving very limited laboratory assessment and programs still under development.
Order as SN 003-003-03069-4 from GPO.

o Directory of State and Local Government Laboratory Accreditation/ Designation Programs (NIST SP 815)

This directory provides updated information on 21 state and 11 local government laboratory accreditation and similar type programs. These programs, which include some type of assessment regarding laboratory capability, designate private sector laboratories or other entities to conduct testing to assist state and local government agencies in carrying out their responsibilities. Entries describe the scope and nature of each program, laboratory assessment criteria and procedures used in the program, products and fields of testing covered, program authority, and other relevant details.
Order from GPO.

o Barriers Encountered by U.S. Exporters of Telecommunications Equipment (NBSIR 87-3641)

This report addresses the perceived institution of unreasonable technical trade barriers by major European trading partners to the export of telecom products and systems by U.S. companies. The GATT technical office, which has responsibilities to assist U.S. exporters to take advantage of trade opportunities, informally contacted over a period of six months, telecom companies and agencies to assess the extent of unreasonableness in foreign national standards, regulations, testing and certification requirements, and accreditation procedures.
Order as PB 88-153630 from NTIS.

o A Review of U.S. Participation in International Standards Activities (NBSIR 88-3698)

This report describes the role of international standards, their increasingly significant importance in world trade, and the extent of past and current U.S. participation in the two major international standardization bodies - ISO and IEC. The degree of U.S. participation covers the 20 year period 1966-1986. A coarse analysis of data indicates some correlation between U.S. participation and recent export performance for several major product categories.
Order as PB 88-164165 from NTIS.

o An Update of U.S. Participation in International Standards Activities (NISTIR 89-4124)

This report presents updated information on the current level of U.S. participation in ISO and IEC (reference: NBSIR 88-3698).
Order as PB 89-228282/AS from NTIS.

o A Summary of the New European Community Approach to Standards Development (NBSIR 88-3793-1)

This paper summarizes European Community (EC) plans to aggressively pursue its goal of achieving an "internal market" by 1992 and the standards-related implications of such a program on U.S. exporters.
Order as PB 88-229489/AS from NTIS.

o Trade Implications of Processes and Production Methods (PPMs) (NISTIR 90-4265)

This report discusses processes and production methods (or PPM's) and their relationship to trade, the GATT Agreement on Technical

Barriers to Trade, and traditional product standards used in international commerce. The report provides background information on PPM's, a suggested definition, and the possible extension of their application from the agricultural sector to industrial products. Order as PB 90-205485 from NTIS.

[SEE LAST PAGE FOR NTIS AND GPO CONTACTS]

The following documents are available upon request from OSCI.

o tbt news

This newsletter provides information on government programs and available services established in support of the GATT Agreement on Technical Barriers to Trade (Standards Code). tbt news reports on the latest notifications of proposed foreign regulations; bilateral consultations with major U.S. trade partners; programs of interest to U.S. exporters; and availability of standards and certification information. Subscription is free upon request.

o Technical Barriers to Trade

This booklet explains the basic rules of the international Agreement on Technical Barriers to Trade negotiated during the Tokyo Round of the Multilateral Trade Negotiations (MTN), and describes Title IV of the U.S. Trade Agreements Act of 1979 which implements the United States' obligations under the Agreement. The Agreement, popularly known as the Standards Code, was designed to eliminate the use of standards and certification systems as barriers to trade. The booklet describes the functions of the Departments of Commerce and Agriculture, the Office of the U.S. Trade Representative, and the State Department in carrying out the U.S.'s responsibilities.

o "GATT Standards Code Activities"

This brochure gives a brief description of NIST's activities in support of the Standards Code. These activities include operating the U.S. GATT inquiry point for information on standards and certification systems; notifying the GATT Secretariat of proposed U.S. regulations; assisting U.S. industry with trade-related standards problems; responding to inquiries on foreign and U.S. proposed regulations; and preparing reports on the Standard Code.

o GATT Standards Code Activities of the National Institute of Standards and Technology

This annual report describes the GATT Standards Code activities conducted by the Standards Code and Information Program for each calendar year. NIST responsibilities include operating the GATT inquiry point, notifying the GATT Secretariat of proposed U.S. Federal government regulations which may affect trade, assisting U.S. industry with standards-related trade problems, and responding to inquiries about proposed foreign and U.S. regulations.

o Free handout material on office activities and standards-related information such as: government sources of specifications and standards; foreign standards bodies; U.S. standards organizations; and a brochure on the National Center for Standards and Certification Information (NCSCI).

In addition to general inquiry services, the following assistance is also available:

o EC Hotline

This hotline reports on draft standards of the European Committee on Standardization (CEN), the European Committee for Electrotechnical Standardization (CENELEC) and the European Telecommunications Standards Institute (ETSI). It also provides information on selected EC directives. The recorded message is updated weekly and gives the product, document number and closing date for comments. The hotline number is (301) 921-4164 (not toll-free).

o GATT Hotline

A telephone hotline provides current information received from the GATT Secretariat in Geneva, Switzerland, on proposed foreign regulations which may significantly affect trade. The recorded message is updated weekly and gives the product, country, closing date for comments (if any) and Technical Barriers to Trade (TBT) notification number. The hotline number is (301) 975-4041 (not toll-free).

o NCSCI provides assistance to U.S. and foreign exporters in obtaining current standards, regulations and certification information for the manufacture of products. To aid foreign exporters, NCSCI also provides directory information of state offices prepared to respond to queries concerning conditions to be met by goods for sale in their state.

Publication Ordering Information

NTIS - National Technical Information Service
5285 Port Royal Road
Springfield, VA 22161
Telephone: (703) 487-4650
Fax: (703) 321-8547

GPO - Superintendent of Documents
U.S. Government Printing Office
Washington, DC 20402
Telephone: (202) 783-3238
Fax: (202) 512-2250



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11 Todds Road
Ridgefield, CT 06877-9990

11. ABSTRACT (A 200-WORD OR LESS FACTUAL SUMMARY OF MOST SIGNIFICANT INFORMATION. IF DOCUMENT INCLUDES A SIGNIFICANT BIBLIOGRAPHY OR LITERATURE SURVEY, MENTION IT HERE.)

The directory is a guide to laboratory accreditation and similar types of programs conducted by professional and trade organizations. These programs accredit or designate laboratories or other entities to assist private sector professional societies, trade associations, related certification bodies, their membership, as well as government agencies, carrying out their responsibilities. This accreditation or designation is based on an assessment of the capability of the laboratory to conduct the testing. However, the nature of the assessment varies considerably by organization and program.

Entries in this directory are based on information provided by each organization and reflect the organization's view of its activities. Parties interested in laboratory accreditation are referred to NIST SP 808, *Directory of Federal Government Laboratory Accreditation/Designation Programs*, and NIST SP 815, *Directory of State and Local Government Laboratory Accreditation/Designation Programs*, which contain information on similar programs conducted at the federal, state and local government levels.

Publication of this directory is part of ongoing NIST efforts to establish and maintain comprehensive information on standards, regulations, laboratory accreditation, certification programs, and related information. This material answers the needs of government, industry, and the public for information on private sector laboratory accreditation and related programs.

12. KEY WORDS (6 TO 12 ENTRIES; ALPHABETICAL ORDER; CAPITALIZE ONLY PROPER NAMES; AND SEPARATE KEY WORDS BY SEMICOLONS)
accreditation; certification; designation; laboratory accreditation;
laboratory designation; listing; proficiency testing; qualified laboratories;
quality systems; standards; testing

3. AVAILABILITY
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NIST Technical Publications

Periodicals

Journal of Research of the National Institute of Standards and Technology - Reports NIST research and development in those disciplines of the physical and engineering sciences in which the Institute is active. These include physics, chemistry, engineering, mathematics, and computer science.

Papers cover a broad range of subjects, with major emphasis on measurement methodology and the basic technology underlying standardization. Also included from time to time are survey articles on topics closely related to the Institute's technical and scientific programs. Indexed by *ISI* and *ISI/ASIS*.

Nonperiodicals

Monographs - Major contributions to the technical literature on various subjects related to the Institute's scientific and technical activities.

Handbooks - Recommended codes of engineering and industrial practice (including safety codes) developed in cooperation with interested industries, professional organizations, and regulatory agencies.

Special Publications - Include proceedings of conferences sponsored by NIST, NIST annual reports, and other special publications appropriate to this program such as wall charts, pocket cards, and bibliographies.

Applied Mathematics Series - Mathematical models, formulas, and studies of special interest to aerospace engineers, chemists, biologists, mathematicians, computer programmers, and others involved in scientific and technical work.

Treatment Standard Reference Data Series - Provides authoritative data on the physical and chemical properties of elements - compiled from the world's literature and critically evaluated. Developed under a worldwide program coordinated by NIST under the authority of the President Standard Data Act (Public Law 93-291). NIST's *The Journal of Physical and Chemical Reference Data* (JPCRD) is published bimonthly for NIST by the American Chemical Society (ACS) and the American Institute of Physics (AIP). Two crispings, *Reprints*, and *Supplements* are available from: NIST, 3355 Lafayette St., NW, Washington, DC 20056.

Building Systems Series - Disseminates technical information developed at the Institute on building materials, components, systems, and whole structures. The series presents research results, test methods, and performance criteria related to the structural and environmental functions and the acoustic and other characteristics of building elements and systems.

Technical Notes - Summarize reports which are complete in themselves but relatively or technically incomplete on a subject. An integral bibliography has not as comprehensive a scope as that of a technical or literature review. Often serve as a vehicle for final reports of work performed as part of the operations of other government agencies.

Consumer Product Standards - Developed under procedures published by the Department of Commerce in Part 10, Title 15, of the Code of Federal Regulations. The standards establish minimum required requirements for products, and provide all concerned persons with a basic and accurate understanding of the characteristics of the product. NIST administers the program in cooperation with the activities of the private sector standardizing organizations.

Consumer Information Series - Practical information, based on NIST research and experience, designed to be of interest to the consumer. Expects understandable language and illustrations provide useful background knowledge for shopping in today's technological marketplace.

Order the above NIST publications from: Superintendent of Documents, Government Printing Office, Washington, DC 20540.

Order the following NIST publications - *FIPS* and *NISTIR* - from the National Technical Information Service, Springfield, VA 22161.

Federal Information Processing Standards Publications (FIPS PUB) - Publishing in this series continues the Federal Information Processing Standards Register. The Register serves as the official source of information on the Federal Government's existing standards issued by NIST pursuant to the Federal Property and Administration Services Act of 1949 as amended (Public Law 89-466 (79 Stat. 1417), and as supplemented by Executive Order 11717 (35 FR 1226) and May 11, 1971) and Part 6 of Title 15, CFR (Code of Federal Regulations).

NIST Technology Reports (NISTIR) - A special series of reports on final reports in work supported by NIST. It includes reports (both government and non-government) in general and distribution is handled by the proper public distribution or by the National Technical Information Service, Springfield, VA 22161, in paper copy or microfiche form.

